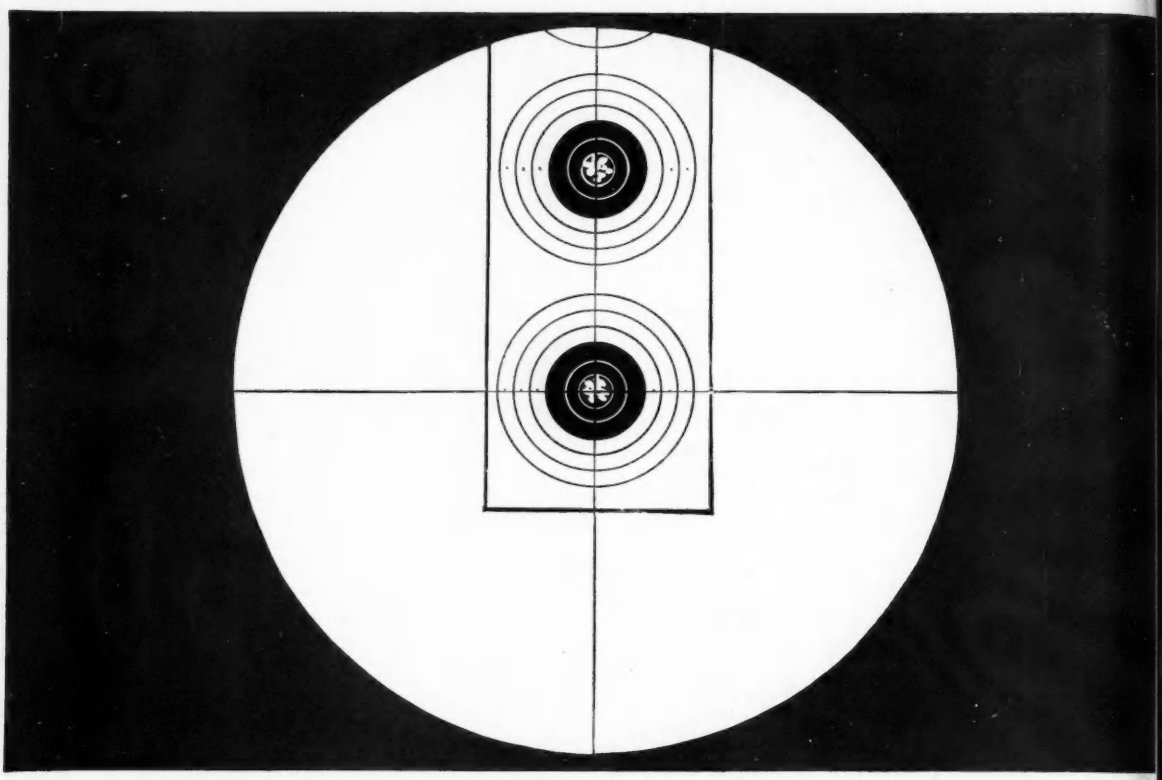
A 1967 Photograph

Nina Simone with Her Rifle, Mississippi

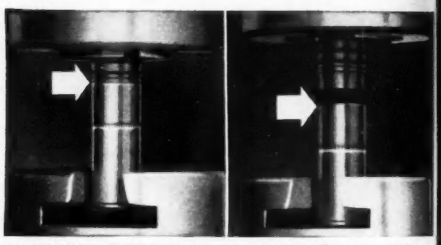


How Peters gives you "second sight"

Nine in the 10-ring and one to go! That's the picture in your scope as you squeeze off the last shot. And chances are your possible will be complete if all other factors are equal and you're shooting Peters match cartridges.

That's because every Peters match cartridge you shoot gives you "second sight." Second sight, because Peters experts make these cartridges as perfect as science and machinery can produce. Second sight, because these cartridges are alike to an extremely fine degree. Second sight because samples from every lot of these cartridges are test-fired from machine-rest guns on Peters ballistics ranges. And, amazingly enough, the average group shot at 100 yards with Peters match 22's is the size of a 25¢ piece!

Next time you shoot for perfection, load up with Peters "Police Match" or Peters "Dewar Match" 22's . . . and, for practice shooting, Peters "Target" 22's. *There's no more accurate rim-fire ammunition in the world!*



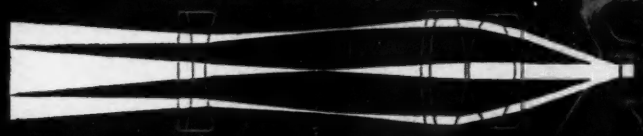
UNIFORMITY THROUGH AND THROUGH: Experts put Peters cartridges through "pull-apart" tests for uniformity in crimping. Other tests are made for perfect bullets, cases, primers and powder.

SAMENESS IN velocity, trajectory and accuracy is precision-checked. Peters experts use the "chronoscope" to test uniformity of Peters match cartridges.

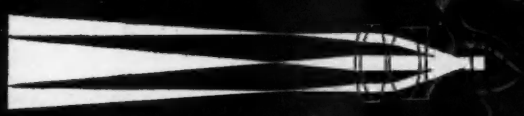
PETERS
PACKS THE POSSIBLES

DU PONT

PETERS CARTRIDGE DIVISION — *Remington Arms Company, Inc., Bridgeport 2, Conn.—"Dewar Match" and "Target" are Reg. U.S. Pat. Off.—"Police Match" is a trademark of Peters Cartridge Division.*



NEW LONG EYEPOINT 20X EYEPIECE



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125% more field areal Central focusing, positive lock. Independent windage and elevation adjustments. Hard coated lenses.

Z-2: Magnification, 2½x. Field at 100 yds. 60 ft.l Eye relief 2¼" to 4". 1" tube dia. Wt. 10 oz. Length 9½". Objective dia. 24 mm. Eye lens dia. 36 mm. . . **$75.00**

Z-4: Magnification, 4x. Field at 100 yds. 42 ft.l Eye relief 2¼" to 4", 1" tube dia. Wt. 10½ oz. Length 10½". Objective dia. 24 mm. Eye lens dia. 36 mm. . . **$75.00**

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5 power. Field at 100 yds. 22 ft. Eye relief 3¾" to 6". 1" tube dia. Wt. 12½ oz. Length 15½". Objective dia. 45 mm. Eye lens dia. 36 mm. Luminosity 81. Hard coated lenses, independent elevation and windage adjustments . . . **$110.00**

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Precision-made, these bullets are most uniform in wt. and dia. available. Designed for velocities of 3600 ft. per sec. Reliable expansion; highly polished to guarantee abrasion-free jackets. 6 cal. Ogive. Per 100: 45 gr., $2.25; 50 gr., $2.30; 55 gr., $2.40.

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Cast of Meehanite. Ideal for hard bullet metals such as Type metal or Kirksite A. Grease reservoir operates under 300 lbs. pressure, enabling user to size many bullets with one pressure setting (approx. 35 bullets of .38 cal.) All dies are hardened, inside surfaces micro-finished **$17.50**

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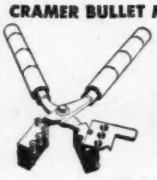

Available in following calibers: 22, 25, 270, 7 m/m, 30, 8 m/m, 35, 38 Spl., 45 ACP, in two cavity moulds. 3, 5, or 10 cavity moulds on special order subject to short delay.

2 cavity. $10.50 5 cavity.. $22.50
3 cavity.. $12.50 10 cavity.. $50.00

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RIFLEMAN WORDS • • • •

Each month this "lexicon for shooters" is devoted to a few words peculiar to the shooting game which may be puzzling to the newcomer. All words defined are used in the current article.

BENCH-REST SHOOTING—Shooting from a rest which provides a seat for the shooter, a rest for his elbows and the forearm of his rifle. This type of shooting is designed to eliminate as many of the human errors as possible, and test the accuracy of the rifle and ammunition only.

CAP FLASH—The high temperature gases and residue resulting from the detonation of the high-explosive priming material when struck by the falling hammer or firing pin.

DECAPPING—Removal of the live or fired primer from the cartridge case. The Berdan primers used in this country are removed by a long tool which enters the cartridge mouth and punches the primer out of the flash hole from the inside.

EJECTOR—That part of a firearm action which flips the cartridge or cartridge case clear of the firearm after extraction.

EXTRACTOR—That part of a firearm action which pulls the cartridge or cartridge case from the chamber. In some weapons one part accomplishes both extraction and ejection.

FOUR-JAW CHUCK—A clamp for gripping a tool by means of jaws which can be moved radially toward or away from the center. There are two main types those in which the jaws can be moved independently and those in which all of the jaws are actuated at once from one central adjustment point. The latter is referred to as a four-jaw Universal chuck.

GAIN TWIST—Rifling in the bore of a firearm which increases in the rate of twist from chamber to muzzle. Such rifling might start out with a pitch of one complete turn in sixteen inches of barrel length and gradually increase to one complete turn in ten inches at the muzzle.

HAMMER FALL—The distance travelled by the hammer of a firearm when the trigger is pulled.

INLAY—In stockmaking, a piece of wood or plastic closely fitted into a sunken or grooved portion of a gunstock. Inlays are often used to form decorative patterns in the surface of a stock or on the metal parts.

LUBRICATING GROOVE—A depression around the cylindrical section of a lead bullet. Wax or heavy grease is forced into the groove and lubricates the bore of the rifle as the fired bullet travels through it.

PRIMER SEATING—Forcing the close-fitting live primer cup into the primer pocket in the base of a center-fire cartridge case. Primers are seated so that the exposed surface of the cup is slightly below flush with the base of the case.

STOCK PITCH—In shotguns, the angle between a line drawn between the heel and toe of a rifle or shotgun stock and a line through the center of the bore.

SWIVEL BAND—The metal strap extending around the forestock of a rifle. The sling swivel or stacking swivel are secured to these bands. Bands for holding the swivels are usually confined to military rifles.

"Lost Shot"—*Churchill Ettinger*

Today's Loss . . . Tomorrow's Game

If you're in an area where game is plentiful, pass up a few birds. You'll be helping to halt the steep national decline in game and assure good hunting for yourself and others for years to come. So, for the good of the sport, limit your bag, and join and support local and national organizations for game restoration and preservation.

Sportsmen: Support the Ranger Program

Write today for free 32-page booklet which tells how to have more fun target shooting—how to start a rifle club for both young and old in your community—how they can win Ranger Shooting Emblems. No obligation. Address—Sportsmen's Service Bureau—Dept. A-6, Sporting Arms & Ammunition Manufacturers Institute, 343 Lexington Ave., New York 16, N. Y.

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REG. U. S. PAT. OFF.

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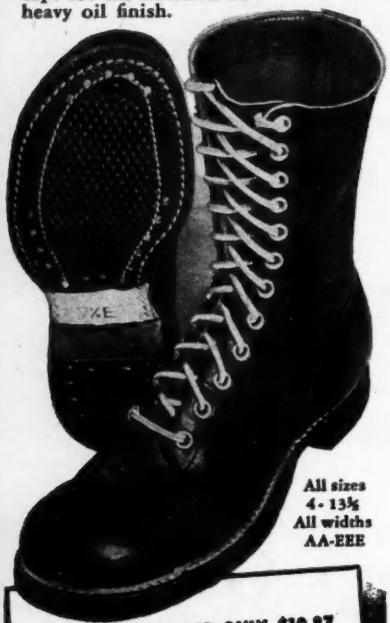

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Ricochets . . .

JULY COVER

Gresham, Oregon

Editor:

Re: July cover. Form, subject, art—the most beautiful page of printed matter I've ever seen.

ROBERT WESTMORELAND

SMALL-BORE INSTRUCTION

Steamboat Rock, Iowa

Editor:

Just finished reading your 'Incidentally' in the July RIFLEMAN. A salute to you from me, brother. You have put in writing what I have been thinking ever since I subscribed to the RIFLEMAN.

. . . I have bought every book that I thought would have material in it to help me, and have driven endless miles to attend small bore matches and meet fellows who knew the game. I found myself in a wilderness of farmers, business men, fishermen, trapshooters, etc., but not a small-bore shooter within miles. At long last I persuaded a fellow from the Iowa Falls club to come to our town and conduct a small-arms course. This resulted in our club being born. We now have . . . ten active riflemen. Even so, we are still just a bunch of fellows feeling our way along. After five years of this sort of struggle I finally got a sharpshooter rating from the NRA, and only last week I shot in my first really big tournament.

HAROLD H. LUIKEN

Bedford, Ohio

Editor:

You state that our present-day champs are not passing on to the new shooter all they could to encourage them in the right direction and give them the know-how to become the champs of the future. I wonder if it is necessary for the champs to be called on for this information? . . . I contend that it is the responsibility of the instructor to mold the new shooter into championship material through proper instruction. Given good raw material and equipment, a good instructor can make a winner!

. . . this all leads up to one thing. That is the necessity of having equipment that will bring out the best there is in the boy. We all know that it costs money for any kind of sport, and that if a dad is a golfer he wants the best (equipment) he can get for his money. If a father is interested in having his son reach the top he will recognize the need for a good rifle and try to get him one. . . .

Think it over, Dad, and help your boy realize his ambition.

OTIS L. CREIGHTON

Washington, Pa.

Editor:

I would like to make a few statements in defense of the big time target shooters, that is, if I may be classified as such.

In my own case, we had no one to ask, or tell of our mistakes. By our own incentive to win, we tried to rectify our own mistakes. If you do not have the desire to beat the other fellow by hours of practice, and then give up some of your other pleasures to achieve this goal, then no old timer can write down a set of instructions and ex the novice to win a match.

In defense of the old timers before me, can honestly say that they were willing give me any information that they could, I would only ask them. What might be difficulty with one shooter would not ap to the next. Certainly no one can expect top-flight shooter to go along the line study each shooter and then try to tell his mistakes when he is not asked to do In my own case I have tried to tell shooter his mistakes as honestly as I co from my own experience. . . . We w to see the new shooters as much as you.

G. WAYNE MOOR

Sparrow's Point, Maryland

Editor:

We, the older shooters, will be out of sport in years to come. In our place will today's tyro or beginner. He has scra together a pretty good shooting outfit, so times under real financial difficulties. shows real interest in competitive shooti but cannot enter due to the cost involved travel, lodging, entry fees, etc.

He will take your place tomorrow—if keep his interest until he is a dyed-in-th wool shooter

The remedy is local, limited competit sponsored by the club in each area. L matches, sponsored by such local clubs, wo provide competition at low cost to the i dividual. They would create wide inter in the area. They would also prov profits to the sponsor that could be used meet club expenses. Since the tournam would be small, little work would be i volved on the part of any individual in home club. Club and NRA members would both show an increase.

If possible, the first tournament should planned for the tyro only. There should no more than three forty-shot matches an aggregate on any day's program. Med to the first three places in each match sho be given. Programs should be sent to clubs in the area selected by the spons and mailed well in advance of the fir date.

It is the one and only solution to the co tinued success of the shooting sport. A f small matches today mean improved tendance at the 'big match' of tomorrow.

It is no longer possible to sit back and Joe do it. Joe is plenty tired and it is n up to you.

JAMES AMBROS

BIG PARADE

Houston, Texa

Editor:

Come, come, old boy. A safari? I sure the photo on page 25 of the July is a part of Haile Selassie's army moving to fight the Italians.

C. H. DINKELACKER

POINTS

Newcomerstown, Ohio

Editor:

In Rifleman Words (July, page 2) 'minute' is the statement "for fine adjus ment, minutes of angle are divided 'points.' One point equals one-fourth of angle." There is a 16 to 1 error in

(Continued on page 6)

FRANK PACHMAYR POWer-PAC E. BADEN POWELL

SHOT CONTROL

PERFECT PATTERNS PACKED WITH POWER

LESS RECOIL . . LESS MUZZLE BLAST . . Inverted tube, forward shoulder and more efficient gas port design cuts recoil to a new low and eliminates the sharp "crack" so disturbing to most shooters. You don't have to plug your ears when you shoot a POWer-PAC. Examine all the evidence below, then order your POWer-PAC installed now!

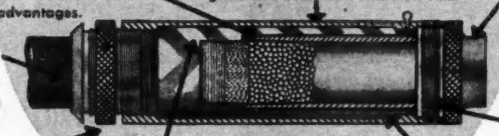
ONLY POWer-PAC HAS THESE EXCLUSIVE FEATURES

INVERTED TUBE DESIGN. Keeps gas out of shot column because shot is in tube before wad is out of barrel . . . less deformed shot because shot can't spread out in attachment body . . . plus many other advantages.

EASY INSTALLATION. Less lathe work . . . no facing-off body to make sight line up on top-center. Adapter ring designed to keep sight plane and shot plane parallel.

CANNOT SHOOT LOOSE. Adapter ring permits adjustment of sight on top-center of barrel . . . tightening and locking ring against body prevents shooting loose.

NON-GLARE MATTED SIGHTING PLANE. Fine checkered matted surface entire length of body prevents glare and matches ventilated ribs.



DESIGN PREVENTS MUZZLE JUMP. Gases go up . . . holding muzzle down . . . succeeding shots off faster and more accurately.

3 TUBES FOR EVERY SHOOTING REQUIREMENT. Each tube bored to precision standards for specified use . . . over 25 tube designs tested to arrive at these three:

SHORT RANGE for 30 in. circle at 15 yds. for skeet and close upland shooting.

MEDIUM RANGE for 30 in. circle at 30 yds. for deliberate skeet shot, traps and general upland shooting.

LONG RANGE gives 30 in. circle at 40 yds. yet holds pattern out to 60-80 yds. for wildfowl.

TUBES NEVER FREEZE. Machined shoulder protects threads from dirt . . . the tubes never freeze in place.

TUBES SAME LENGTH . . . GUN BALANCE NEVER CHANGES. Shooters stay "in the groove" with their swing because tube length and weight of muzzle remain constant. Better appearing, too.

KILLING POWER OF A GAUGE LARGER . . . COMFORT OF A GAUGE SMALLER . . . For instance, our ballistic tests show that if you shoot a 12 gauge gun with a POWer-PAC, you have approximately the effective killing power and range of a 10 gauge, and yet have the shooting comfort of a 16.

FEWER SHELLS FOR MORE GAME. The amazing efficiency of the POWer-PAC will actually raise your percentage of kills per box of shells fired. When you get higher velocity at longer range, more pellets on the target at any range, you are going to make more clean kills . . . with fewer unbagged wounded game birds.

HIGHER SCORES AT SKEET AND TRAPS. Whether expert or novice, you will break more birds at Skeet or Trap with a POWer-PAC. Your shot column is more uniform and contains more pellets when it reaches the target area.

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POWer-PACS are available at leading Sporting Goods Dealers, Gunsmiths or Direct from Factory . . .

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"Sporter" Specifications

Weight 6 lbs.; compact length 37"; "over and under" rustless barrel and piston tube; 5 m/m (.20) caliber; bullet-shaped ammunition; long-lived alloy-steel valves in sealed unit; adjustable trigger pull; action parts heat treated; adjustable sights; short action; fast locktime; shotgun type safety; sleek-lined walnut stock and fore-end; controlled power; target rifle accuracy.

THE SHERIDAN "SUPER-GRADE"
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PRICE $56.50

The "Super-Grade" includes all the famous Sheridan features found in the "Sporter" plus: Streamlined muzzle cap with integral serrated ramp; side mounted receiver sight; silver-grey mid-rib; selected walnut stock, with pistol grip and cheek piece; Ebonal finish; "Pride of Ownership" beauty; super quality throughout.

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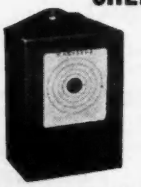

Sheridan "Targetrap" (left) is ideal for home and yard. A sturdy, compact, steel target-holder and backstop with "no splash" baffle, $5.50. Sheridan Bantam 5's (right) are solid-nosed bullets, matched to the rifled barrel. Box of 500, $2.00. Indoor Targets, per 100, $.75. 5 m/m Cleaning Rod, $.75. Lined, flexible plastic zipper case, $5.90.

Ask your dealer to show you the new Sheridan "Sporter"; or, if he does not handle it, send check or money order direct. Money refunded if not satisfied after inspection.

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statement. The windage on the rear sight of the Springfield '03 rifle is divided into points, each of which is equal to four inches (or minutes) to the hundred yards. For finer adjustment we used imaginary quarter points which are equivalent of minutes of angle.

C. R. RIPLEY

• RIFLEMAN *editors were asleep at the switch. Even eight years without .30-caliber National matches should not have made them forget that easily.—Ed.*

MEMBERSHIP IDEA

Lynwood, California

Editor:

I have a novel suggestion to make and perhaps it might help step up NRA membership still more. This fall when I go deer hunting I'm going to take several application blanks with me plus two or three postal notes or money orders with envelopes already addressed to the NRA. Invariably when I go on hunting trips I spend a lot of time "shooting the bull" with other gun lovers and find that many would subscribe at the time if the blanks and money orders were available. In this case there's no excuse to put it off. All they would have to do is hand me the cost of the money order, I'd give them the order and subscription blank and, presto, we have a new member! Unused money orders could be cashed in at any time the need arises—or after the return home and no one could possibly lose. Why couldn't other members use this same system? I'm sure it would help materially to increase our active membership.

R. W. GLOECKLER

• *Membership blanks are available for the asking, if you'd like to try Reader Gloeckler's idea.—Ed.*

SHOOT-STICK

Sioux City, Iowa

Editor:

I was nauseated by the "shoot-stick" described in the July Dope Bag (page 63). As a pistol shot, I can't hit my posterior with both hands, but I'll be damned if I will use such a contraption to improve my accuracy. If I can't connect with what I am aiming at while holding the pistol in one hand, I'll get a rifle, shotgun, field-piece, or dynamite. I hope anyone who uses that idea strangles himself with the rope he is supposed to use in trussing himself up.

WALTER B. DUNNING

FOUL-UP

New York, N. Y.

Editor:

Somebody fouled up on the Seguin article (August) when he captioned the cuts of groups 10 and 11 on page 22. The last paragraph on page 20 [*correctly—Ed.*] states that group 11 was fired at 100 yards, but the caption says it was group 10.

Go on, apologize to your readers.

GEORGE NESBITT

RIFLEMAN EDITORIALS

Colombo, Ceylon

Editor:

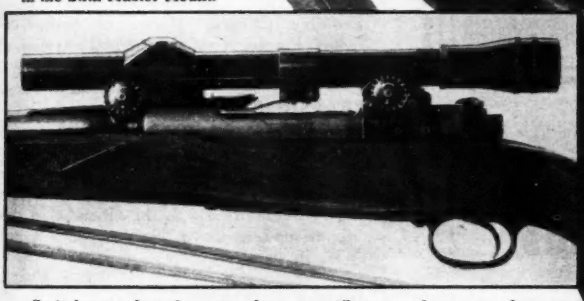
Congratulations on your objective editorials. A politician can get by with alibis which would quickly show him the door from the AR staff.

Just watch the "Flimsy-Flamsies", the ever-open "Sealed Lips" or the "Umbrella Man" of 1948 spraying idle words (more dangerous ever than bullets) around the countryside. And when caught out they al-

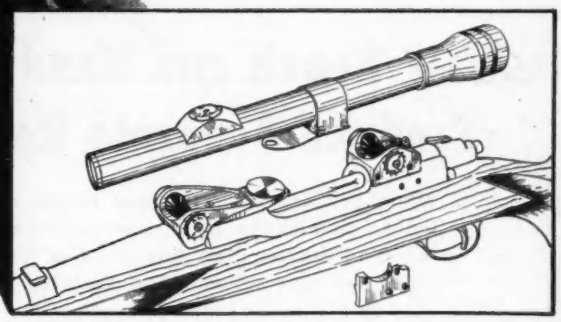
(Continued on page 8)

The FIRST Revolutionary Development in Mounts since the Stith Install-It-Yourself

The STITH MASTER MOUNT



Winchester Model 70 with the popular Bear Cub DeLuxe Scope in the Stith Master Mount.



The Master Mount is a unique V-block design, employing two sets of opposing cones. The scope rests on the four cones as it would in V-blocks, held securely on zero by the simple attachment on the scope, as shown above. (On the new Model 70 no side plate is required.)

Switch your favorite scope from one rifle to another . . . or change from one scope to another on the same rifle . . . *in less than ten seconds!* Now, for the first time, it can be done. The new Stith Master Mount makes it possible. Different scopes, with ¾, ⅞ and 1-inch tubes may be used with quick interchangeability in the same Master Mount. No re-zeroing is necessary . . . quick on-and-off is so simple it can be done with one hand. No loose or spare parts; no tools required. Just switch and shoot—*accurately.* Enjoy the added shooting pleasure this latest innovation affords. If your dealer cannot supply you with details write direct.

$20.00*

WHAT THE *Gun Experts* SAY—

FROM WARREN PAGE'S REPORT IN FIELD & STREAM:
Particularly notable, from a sighting point of view, was the rifle's tendency with the K6, slightly above the target center in the forenoon, to group well up later; and with the Bear Cub, in the lower half of the bull early, to stay corresponding low in the P.M. In other words, the afternoon groups were the logical developments of the morning firing. One can hardly ask more by way of practical maintenance of zero under the conditions. The two 'scopes later stayed put, without any correction, as long as anyone wanted to shoot, and swap. Nope, the "Master Mount" is not equipped with running water, but it goes further than any other mount in adaptability.

FROM AL BARR IN THE AMERICAN RIFLEMAN:
I saw M. L. Stith remove and replace a 6X Weaver scope on his favorite .220 Swift dozens of times, making hits on some remarkably long shots between demonstrations. Some of the hits were at more than 300 yards on rather small targets. His rifle was, of course, equipped with a Master Mount. I used and saw used at least a half-dozen scopes on three different rifles. In all the removal and change tests not once could I detect any variation in the zero of a scope.

FROM COLONEL TOWNSEND WHELEN IN SPORTS AFIELD:
This form of mount has no error, for the scope must go to precisely the same position each time. But instead of these two V's being formed by a right-angle cut in a block of steel, they are each formed by two precision-ground cones which are adjustable. The scope is held in the V's by a strong spring secured to the scope by a collar, it only being necessary to place one of these collars on a scope to adapt it to this mount. The mount itself can be screwed on Remington Model 721 and Winchester Model 70 rifles without the use of tools, and the older Enfield, Remington Model 30, and Mauser rifles require only the drilling of the necessary screw holes in the receiver.

NOTE—Available ONLY for the following rifles at present: Model 70, pre-war and new-style; Rem. 721-722; Enfield; Mauser

Write for Full Details—Address Dept 39

DEALERS—**The thousands of inquiries we are receiving direct indicate a phenomenal interest in the Master Mount. In each case we try to refer the customer to his nearest dealer. That is why you should have the Master Mount in stock now to accommodate your customers. We'll gladly send all details.**

STITH MOUNTS
500 TRANSIT TOWER SAN ANTONIO 5, TEXAS

***Extra Scope Bands $5.00**

Choose the Best Tools for Reloading

A SHOOTER'S RELOADING BENCH

Ideal Bench and Hand Tools Produce Accurate Reloads

When you are after the best results in hand loaded ammunition, all of your requirements are found in the complete line of Ideal Reloading Tools and accessories. Ideal Tools are widely used in this country and throughout the world. They serve the shooters best because they are accurately made, easy to operate and produce satisfactory, close shooting reloads.

Ideal Booklet Free

IDEAL HAND BOOK 50c Postpaid

THE LYMAN GUN SIGHT CORP.
MIDDLEFIELD, CONN.

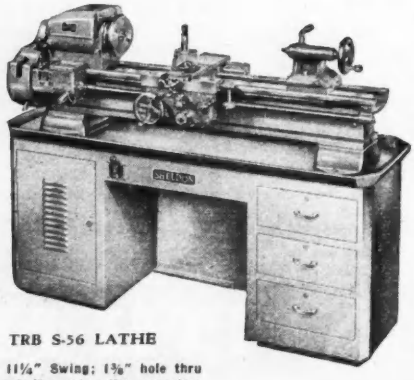
SHELDON

Gunsmiths find what they want in SHELDON S-56 series Precision Lathes, and in this series they like the TRB S-56 Lathes, best for extreme accuracy; ("Zero Precision" Taper Roller Bearings) extra capacity (1⅝" hole thru spindle); 56" bed that's just right for all but the very long antiques.

They like the 4-speed underneath drive, full quick-change gears, double-walled worm feed apron with power cross feed and modern welded bench with heavy plate top and 3 drawers . . . and they like its price. It's by far the most lathe for the money ever built.

Write for Bulletins

SHELDON MACHINE CO., Inc.
4243 N. Knox Ave. Chicago 41, Ill.



TRB S-56 LATHE

11¼" Swing; 1⅝" hole thru spindle; 1" collet capacity; Zero Precision Taper Roller Bearings.

ways say: "I didn't know it was loaded."

I admire, too, your insistence on the right of good citizens to bear arms. Had the same "fussin' and fightin'" been shown in England in 1922 maybe we'd have had more than halberds with which to arm embattled freeman in 1940.

As it was, Whitehall panicked over the murder of Sir Henry Wilson (who, incidentally) was *not* shot with a .22 or a Springfield!) and good and bad were treated alike in the matter of possessing arms.

So easy, y'know, to blanket the lot instead of separating the sheep from the goats—and now we can all go to sleep, and sleep Whitehall did until 1940 when it panicked again—though for a different reason! It didn't astonish me that the British Government knew where to apply for good, and numerous, guns. Obviously only the freest of free men could possess them in quantity without being considered criminals, or political assassinators of Presidents.

Keep at it. For though it may be trite to say "Praise the Lord and pass the ammunition" in 1948, it is the only way I know of avoiding slavery. If anyone knows of a better I'm open to conviction, as war does not amuse me.

D. L. ROSSITER.

TRAPSHOOTING

La Grande, Oregon

Editor:

Thanks for publishing "Trap Shooting Is an Art" by Rudy Etchen (July). Trap shooting is a definite aid to the riflemen in shooting at moving game, besides being a grand sport in itself.

J. S. CLARK.

HERE'S APPLEBY!

Polecatt crick olka.

Dear Sire:

I have bin wanten to rite to you fer quite a spell but i aint bin abel to get my ole woman in the notion lately. i am just a layin hear a tellin it to her and she rites it down as i go. the blacksmith they call hymn thee b.s. fer short down hear the b.s. he come up the other nite and set a spell he sed

saturday afternoon a passel of them yapes was a setten around down to the shop there a blabben about shooten deers and some of them sed they figgered the best dear gun ever maid was the 32 rim fire as it killed one ever shot and never missed he sed they sed it must be so sinse they red it in your book. The b.s. sed hee shot some with the 32 rim fire when he wuz a kidd and he figgered it was just one jump ahead of a BB capp

the b.s. sed if I would rite to you fer him he would get a stamp to male it with. he sed just now awl the stamp they had down to the general stoare and P.O. was some aire male stamp and they cost a lot more but it went a lot faster and he wanted what he sed to go purtey fast.

he sed he kind of wondered if it was purtey good sportsmanship you tellin about shooten deers like that with a 32 rim fire like that when ever one else was adfocaten the use sizeable guns fer it. he sed he figgered maybe sum feller had bin kinda feedin you some stuff and pullin your laig and you hadnt ketched on to it yet. the b.s. sed he red in the bibel where it sed by their werks you shall know them and he sed that so fer as a shooten deers with a 32 rim fire was concerned he figgered folks was gonna get to know you fellers purtey fast

as ever your friend
Bill appleby

BOB BROWNELL'S
GUNSMITH'S SPECIALS

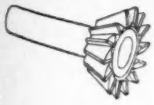
GUARD SCREW DIES
Springfield, Enfield, Mauser
1" Button dies, each .. $1.25
(Specify what gun die is for)

GUNSMITH TAPS, DIES

No. 6x48 taps, per half dozen....$2.00
No. 6x48 dies, ⅝" button..... 1.00
No. 8x40 dies, ⅝" button..... .70
No. 8x40 taps, per half dozen.... 2.50
Complete machine screw tap and die sets on hand, ready for delivery.
Tap and die sets # 167—taps and dies from #4 to #14—price each set.....$14.10
No. 28 Hi-Speed drills, dozen..... 1.90
No. 31 Hi-Speed drills, dozen..... 2.04
"V" blocks
Best precision, set of two, one clamp..... 3.45
Professional large size, set of two and clamp.... 6.90

Per Hundred
6x48 x 1" $2.50
8x40 x 1" 2.50
Enfield Gd Screw, 12. 2.50
Mauser Gd Screws.1 set 1.50
6x48s and 8x40s in white, not blued, cut to any length.

Dovetail Sight Base Cutter



These are the tools we've been wanting for several years. Made to cut the ⅜" Slot.
Each $3.75

Cast Aluminum Accessories

Precision cast and polished by Harwood Products. The carved head designs are well worked out and add to the beauty of the gun.
Bear Head grip cap, ruby eyes.....$3.00
Luger magazine spring holder..... 2.00
S&W—M&P grips, per pair..... 5.25
Inlay (Bear Head) for Mauser military stocks, each 2.75
pair 5.00
Indiana Head rifle butt plates, each..... 4.00

Speed Lock Springs

Made by M. M. Schmidt, each..... 1.00

SCOPES

We carry an excellent stock of the following scopes on hand at all times. Now is a good time to start building up your own stock. Weavers: G4, G6; J2.5, J4; K2.5, K4, K6—with all reticules. Texans: cross hair reticules, Lee dots, rangefinders etc. Bear Cub: all above reticules. LEUPOLD SCOPES: by popular demand we've taken on the distribution of these scopes along with our others. Promptest possible attention to gunsmith orders.

MOUNTS

Weavers in all the various sizes and models for popular rifles. Buehler mounts in all sizes and types made and the same for Echo mounts and Mashburn mounts.

WHITE-LINE

Yes, boys, we're distributors for the best of them all: WHITE-LINE. Get your orders in to us. We've got 'em in stock for IMMEDIATE DELIVERY. Retail price $3.25. Regular discounts on gunsmith orders.

Dovetail Barrel Bands

Available now in four sizes: 23-32"; 25-32"; 28-32" and 63-64".
Each..... $3.50

These bands are made of excellent steel, blued, ready to attach. Can be peened to fit the contour of the barrel. Gunsmith's discounts apply on re-sale orders.

Double End Stock Makers Rifflers

A set of these gives you 16 different shaped rasps for practically all action fitting, mortising, etc. etc. Used the world over by all professional wood workers.
Price, each tool $1.45
Full set of eight assorted 9.75

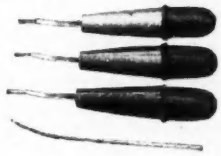
Available in red, green, black, opaque white, clear. Each sheet measures 6" x 12"—enough for seven butt spacers or 30 grip caps.
Sheets 1-16" thick $0.80
Sheets 1-8" thick 1.00
Sheets 1-4" thick..... 1.50
BLOCKS (Black) 1½" x 1¼" x 2"..... 1.00
(Allowance on 10 sheets or more)

This is the assortment given by Baker on page 55 of Modern Gunsmithing. Available in shop assortment kits consisting of all sizes shown with 5 light weight tubes in 12" length and 5 heavy weights in 6" length—complete kit $11.50

GUNSMITH CHECKERING TOOLS
DEM-BART

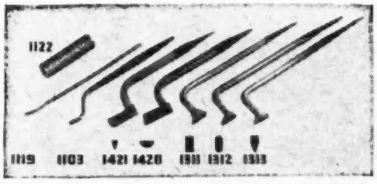
Brand New is Right! The Dem-Bart checkering tool is completely new—engineered to satisfy the most exacting. Shallow or deep, straight or around corners, paralleled lines or cross-hatching with the grain or against, it's all the same with this tool. Comes in 8 sizes of cutters—fine and coarse—cleaner tools in fine or coarse only.
Tool complete—give lines wanted.....$2.25
(Send for complete literature on these tools)

GUN-LINE



Nationally advertised and now with improved cutters.
Professional De-Luxe set complete with 16, 18, 20 line cutters, "V" cleaner border tool, and bent needle file, per set.....$7.50
Complete set, one line, checkering tool, border tool, "V" tool and file....$4.50

Grobet



Grobet has long been the manufacturer of the world's best professional tools. We are proud to offer their checkering tools (Numbers 1119 and 1103); their bull foot rasps (1311; 1312; 1313) and their bottoming files (1419, 1420, 1421) to our customers. Their barrel rasps (1-2": #1122; and 3-4": #1053) work well with the Schmidt rasp ($3.50).

CHECKERING FILES:
2 Ridges, 16—18—20—22—24 lines, per file..... $1.40
3 Ridges, 16—18—20—22—24 lines, per file..... 1.40
Bull foot files, each..... 1.60
Bottoming rifflers, each..... 1.60

BARREL INLETTING RASPS WITHOUT HANDLES:
1-2"..... $2.50 3-4"..... $2.50
Handles for above files, each..... .20
Handles for barrel inletting rasps..... 1.00
Three square bent needle files..... .37

Free!!

This thorough booklet of instruction with your first purchase of bluing salts. It answers any question you can dream up . . . . and if it can't, we can (generally). To you gun lovers who would like to have one of them just to see how it is done: price ..... 25¢

SALT PRICES

10 lbs. $4.00
20 lbs. 6.00
50 lbs. 14.00
100 lbs. 24.00
(10 lbs. makes 1½ gallons solution)

BROWNELL'S NO. 1

BROWNELL NO. 1 is the answer to the thousands who have written to us during years past wanting to know how to put on the old time, long lasting gun blue and still not spend many weeks doing it. Heretofore that was impossible. Brownell No. 1 is FAST. In one production shop three skilled men are turning out 100 guns a day—start of polish to finish of blue job! Yet this finish is the old rust and scrub method made modern—all the beauty of the masters.

IDEAL FOR SPOTTING worn places on otherwise well finished guns. BROWNELL NO. 1 is the only blue you can blend into any finish and not show lap marks. This one feature alone makes it an absolute must in your shop. BLUES ALL KINDS of gun steels, cast iron, case hardened steel, etc. TOUGH—the finish given by BROWNELL NO. 1 is so durable that vigorous rubbing with steel wool burnishes the finish to a higher luster rather than wears it off! WRITE FOR COMPLETE BOOKLET—FREE TO GUNSMITHS.
BROWNELL NO. 1, per gallon..... $39.00
(usual gunsmith discount may be deducted from above)
Aluminum Touch Up Black, 2 oz. bottle..... 1.00
(use this in blackening compensators, etc., that you couldn't blacken heretofore)
Nickel Black, 2 oz. bottle..... 1.30
Solder Black, ½ oz. bottle..... 1.30
2 oz. bottle.....$2.75 4 oz. bottle..... 5.00
(solder black will blacken solder lines on shotgun ribs, sight ramps, etc. A little goes a very long way)
Deep Penetrate Stock Finish, better than oil, faster than lacquer.
4 oz. bottle.....$1.50 16 oz bottle..... 5.50
Copper Black, for blackening copper, "B" 2 oz.... 1.25
Barrel Wax (protects for a season) 2 oz. bottle... 1.00
Walnut Stain, water soluble, 4 oz. 1.00
(Note: our certified gunsmith certificates available with this solution as with Oxynate 7.)
(Note: with Brownell No. 1 many shades of blue are available, from almost a light blue to deep jet black-blue. Iridescent finishes can be accomplished with little change in process.)

SPORTSMAN'S KIT..... $3.50
complete

Polish-O-Ray

The new and extremely necessary addition to your polishing needs. Greaseless; not a hard glue but a soft FAST cutting abrasive to be applied while the wheel is running. For felt and muslin wheels. In grits No. 140, 240, and 400. Two Pound Tubes $1.00; 555 for the Master Quality finish in 3 lb. cakes $1.50. Now used by most gunsmiths and home hobbyists over the continent.

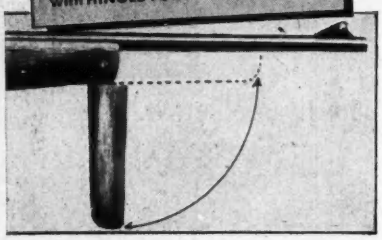
TERMS
All orders F.O.B. Montezuma, Iowa
For Parcel Post Include Postage
C.O.D. Orders Accepted from N.R.A. Members

THE GUNSMITH'S MART
MONTEZUMA, IOWA

NEW! 5-POUND, 37-INCH AUTOMATIC CARBINE

Another Mossberg "first" that adds to the fun of shooting.

BRAND NEW DESIGN—carbine-style, .22 cal., 7-shot, clip type automatic, with HINGED FORE-END. Model #152.



HINGED FORE-END forms 5" hand grip. Pulls down easily when wanted. Snaps back when conventional position is desired.

FORE-END gives steady, comfortable grip in offhand shooting. Note how sling supports arm.

IN PRONE shooting fore-end gives helpful ground support.

ADJUSTABLE SLING Is mounted on left side of stock for easy carrying over shoulder.

RIFLE

$26.95

$27.80 west of Rockies

- There's no other rifle in the world quite like this new Mossberg #152. It's well worth a trip to your dealer's to see it.
- Scope shown is Mossberg 4-power Model #4M4. Mount fits into dove-tail grooves on receiver of rifle. $9.95
- Descriptive folder on request.

82509 St. John's St., New Haven 5, Conn.

O. F. Mossberg & SONS, INC.

Incidentally . . .

As we announced last month (page 27), the high cost of living has finally caught up with us. That grim appointment with Old Man Economics . . . the date we have postponed for so long . . . has upset the apple cart at last. Up go Association membership rates from three bucks a year to four.

There isn't much point in further hashing over the whys and wherefores of the increase. The price of ground roundsteak (if you can afford it) tells a plainer story of rising prices than anything we can say! But fortunately, there is a brighter side to the NRA's rate increase . . . and one not dictated entirely by that problem of increasing production costs. Luck being with us, the extra dollar coming in with every one-year membership will mean that we can not only keep pace with those rising costs and thus avoid curtailing activities . . . but also that we'll be able to do a good many things that were impossible in the recent past.

☆ ☆ ☆

Biggest advantage of operating without the deficit that has tagged us lately will be the opportunity of planning ahead to a much more effective degree. (You can't do much planning when the budget shows red ink on every other line.) Take the national rifle and pistol championships, for instance. Last year Congress dilly-dallied until the last minute,

and finally appropriated a sum that would not have financed a cow-pasture event had the Marine Corps not come to the rescue and furnished personnel for small bore and pistol matches at Camp Perry. This year the story was the same . . . except that Marine Corps commitments had increased, and they could spare neither the men nor the money to lend that helping hand. So . . . the 1948 national rifle and pistol championships, as far as Camp Perry is concerned, are out of the picture. There will be nationals . . . decided between regional champions, who will fire shoulder-to-shoulder as a feature of the First Annual Convention of the NRA. It is a good system . . . one that we have long thought about . . . but the whole thing should have been decided months before—and would have been if that deficit in Association books had not been so evident.

Here's where that extra dollar comes in. It should now be feasible to plan and budget at the *beginning* of each year for championship events, to be held at a definite time and place regardless of Congressional whims.

Those national rifle and pistol matches are not the only activity of the Association which will benefit immeasurably from increased revenues. There is the matter of anti-firearms legislation. One thing we have learned . . . the anti-firearms fight is a never-ending conflict. As long as new legislators, new civic officials, new organizations displace the old, there will be attempts to foist Sullivan Laws (or worse) on the country. With broad changes in high Government personnel all but taken for granted . . . whichever way the wind blows . . . there will be a whole new group who will be uneducated in our common-sense approach to firearms legislation. It is going to take aggressive action to forestall restrictive and ill-considered laws. That aggressive action will cost money.

☆ ☆ ☆

There are many other services to the nation's shooters which can be continued on the old footing . . . and probably expanded as the need manifests itself. Broader distribution of field offices . . . an even better AMERICAN RIFLEMAN . . . improved research and testing facilities . . . many other projects which the American shooter wants.

So . . . as funds gradually become available, beginning October first, we'll be planning ahead for the development of a bigger, better program for 1949. Shooting has more adherents now than at any time in the past. *Now* is the opportune moment to solidify that interest by increased services and better facilities. The extra dollar will make it possible.—J. S.

COVER

First impressions to the contrary, the subject of Harry Pennington's fine color shot is no phony Diana. Says Pennington, "Mrs. Ruth Johnson is one of the best hunters in this part of the country (San Antonio, Texas). She gets her limit . . . every season, and has won several small shooting contests. The clothing she was wearing has been her regular hunting costume for some years, and we had considerable trouble lighting the picture so the moth holes wouldn't show." And for the record, Mrs. Johnson's dog is no pampered front-porch special. Those boots are must equipment for any dog whose beat is the sharp gravel and sun-scorched rocks of Southwestern hunting country.

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FOR CHANGE OF ADDRESS, GIVE BOTH NEW AND OLD ADDRESS AS THE LATTER APPEARS ON ADDRESS LABEL.

The AMERICAN RIFLEMAN

Official Journal of the National Rifle Association of America

1600 RHODE ISLAND AVENUE, N.W., WASHINGTON 6, D. C.

VOLUME 96 NUMBER 9

SEPTEMBER 1948

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☆ ☆ ☆

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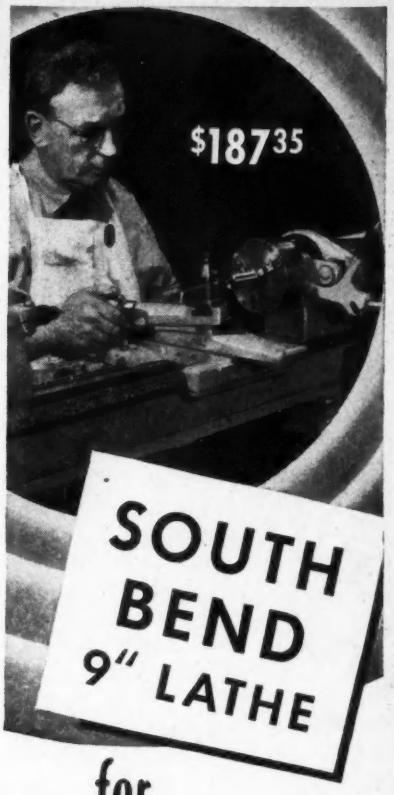
South Bend 9" x 3' Model C Precision Bench Lathe with 6-speed drive. Price, f. o. b. factory, includes drum switch and 1/4 h. p., 1 phase, 115 volt, 60 cycle motor.



for Gunsmithing You'll Be Proud Of

Precision work becomes easy with a South Bend 9" Lathe. Its versatility will broaden the scope of your work. And its accuracy makes exacting operations possible.

You get a lot for your money in this dependable lathe — 45 thread cutting feeds (4 to 160 per in.), 14 turning feeds, ½" collet capacity, ¾" spindle bore, hand-scraped bed ways and many other features. Write for catalog and name of local distributor.

EXTERNAL GRINDING ATTACHMENT

Invaluable for external grinding, sharpening reamers, etc. Spindle revolves in pre-lubricated, sealed, precision ball bearings. Supplied with continuous duty, ¼ h.p., 1 ph., 60 cy., A. C. motor and 4" x ½" grinding wheel. Easily adapted to other makes of lathes and machines.

$52 F.O.B. FACTORY

SOUTH BEND LATHE WORKS

Building Better Tools Since 1906

452 EAST MADISON STREET
SOUTH BEND 22, INDIANA

OPTIMIST - OR SUCKER?

Americans, for the most part, come from a long line of honest, hard-working ancestors who were optimistic enough to believe that they could, if given a fair chance, build a better life for themselves and their children no matter how tough the initial going. They succeeded.

So Americans are born optimists. They hide it under a lot of critical, cynical, rough-and-ready talk but they really find it hard to believe that any nation or any sizable group can consistently devote itself to a policy of cynicism, double-dealing, and oppression.

The American's congenital optimism, his faith in himself and in his fellow man, is his greatest strength and, unfortunately, his greatest weakness. It has made him the beacon light for the optimists of the world—but it has frequently made him a sucker for the cynics and double-dealers of the world.

On June 19, 1948, the American Congress decided that appropriations to encourage civilian small-arms practice could safely be stricken from the Army Appropriation Bill. On July 31, 1948, the United Press reported that the Soviets had disclosed plans for the establishment of a broad plan 'for the systematic semi-military education of Soviet youth' which includes the setting up of 'a network of rifle clubs and shooting ranges throughout the Soviet Union.'

More than a decade ago when the likable, well-intentioned Attorney General, Homer S. Cummings, was urging Congress to pass a Federal Firearms Registration Act, we successfully opposed it. When we pointed out as one objection the fundamental danger to the democratic system which is inherent in the political control of the citizen's personal weapons of defense, we were asked if we thought that Attorney General Cummings or President Roosevelt would use such a law to disarm reputable American citizens and establish a dictatorship. We replied that we did not believe *they* would but we had no way of knowing what *others* in the government then or in the future might do. Any law which depends on the *good intent* of those enforcing it to insure fairness, justice, and continued democratic processes is bad law. Now we know that Communist infiltration into confidential and responsible positions in the American government were taking place at that very time, fitting perfectly into the pattern set by subsequent developments in Canada, Czechoslovakia, Hungary, Austria, and Roumania. Can any sane person now question the fact that the Moscow-directed Communist organization would like very much to have a carefully prepared official registration list of patriotic arms-owning Americans? Can there any longer be doubt that if such lists were established by law the subversive elements could obtain them without too much effort? Can there any longer be doubt that the possession of such arms registration lists would strengthen the courage and speed the plans of the lying, double-crossing gang who have already made suckers of so many Americans whose Pollyana optimism has blinded them to the facts of past and contemporary history?

American optimism is still the great hope of the world but American law-enforcement officers and American legislators who discourage civilian small-arms practice, who seek to bring the reputable individual's personal defense arms under centralized political, police, or military control, are permitting their optimism to make them into suckers for the cynical, double-dealing crowd who will 'liquidate' them first of all if, as, and when the time seems ripe!

C. B. Lister

WHAT ABOUT THE GARAND RIFLE FROM THE TARGET SHOOTER'S STANDPOINT?

THE M1 ON THE RANGE

A CONDENSATION FROM JULIAN S. HATCHER'S NEW, AUTHORITATIVE "BOOK OF THE GARAND"

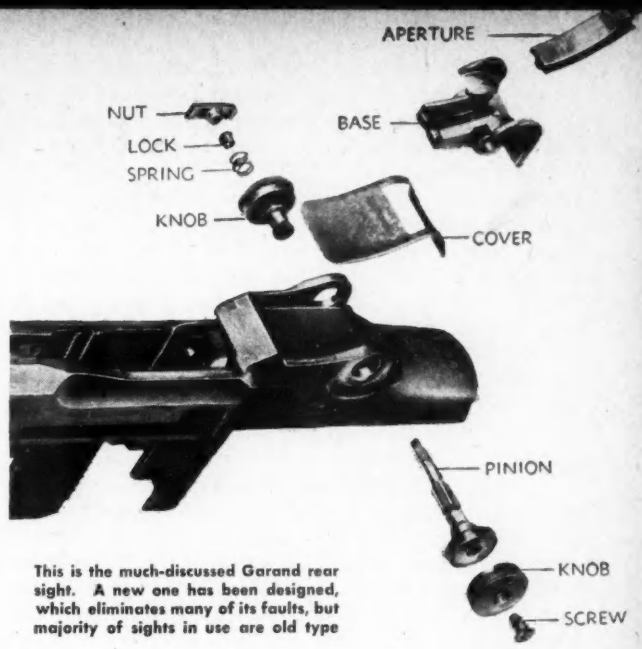
WHEN THE M1903 Springfield was first issued to service rifle teams, they had become thoroughly used to the Krag, and they liked it. It fired a .30 caliber cartridge with a rimmed case, which was loaded with a 220-grain flat-base bullet having a muzzle velocity of 2000 feet per second. It had a 30-inch barrel and an exceptionally smooth-working bolt mechanism. It gave a relatively light kick, a rather soft report, and would do excellent shooting at all ranges up to and including a thousand yards. It was highly dependable and popular.

When the service teams first received the new Springfield with M1906 ammunition, they were not pleased, and they didn't hesitate to say so. They didn't like the short barrel, and predicted that a gun with a barrel no longer than 24 inches would never be a satisfactory match rifle. They didn't like the quick, vicious kick or the sharp, ringing report. . . .

The trigger pull of the Springfield was bad and the movement of the sight for correction of windage was rough and jumpy. The elevation adjustment of the rear sight was accomplished simply by loosening a set screw and moving the elevation slide by hand and then setting it by eye. It was almost impossible to make fine adjustments until several different designs of sight-adjusting micrometers were put on the market by enterprising shooting-supply dealers. In short, the new Springfield as a match rifle was terrible and most shooters had little faith that it would ever make a good rifle. . . .

It was inevitable, however, as the new rifle began to be used by larger and larger numbers of shooters at the National Matches and in other shooting competitions that improvements would be made in both the gun and the ammunition. The Ordnance Department selected special rifles for the National Matches and sent representatives to the matches to keep the rifles in operation and to make necessary repairs and adjustments. In this way, experience was gained as to what could be done to improve the rifle not only as a match rifle but as a service rifle. In the end the Springfield became one of the real favorites in the target-shooting world and is now generally believed to be the most accurate military rifle in the world.

In evaluating any rifle as a target weapon, it is necessary also to consider the ammunition. Part of the trouble with the early Springfields was due to the type of material used for the jacket



This is the much-discussed Garand rear sight. A new one has been designed, which eliminates many of its faults, but majority of sights in use are old type

of the bullet; that is, cupro-nickel, which had the characteristic of producing lumpy metal fouling. The metal fouling was eliminated by a change in the bullet jacket material to gilding metal. During the long years between World War I and World War II special lots of super-accurate ammunition were carefully made and selected for use in each of the National Matches. It is perhaps as much due to this fact as to the excellence of the Springfield rifle that such a high standard of marksmanship was made possible with the military gun and ammunition.

Now let us leave past history and come back to the subject of the Garand rifle. The Garand (M1) was designed and put into production just as we were approaching World War II and the rifle had not yet gotten into large-scale production when the National Matches were suspended. During the war we made over 4,000,000 M1 rifles. The emphasis in making them was on two things: battle efficiency for the rifle, and quantity production in the shortest possible time.

The Garand proved itself a superb combat weapon in every part of the war and under all kinds of service. It has yet to

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prove itself on the target range, but it will start its career as a target rifle with far fewer handicaps than had the old Springfield. It is only fair to prophesy that eventually, at least, the Garand rifle will do as well on the range as it has done on the battlefield.

With the old Springfield, shooters aspiring to high places in the .30 caliber matches would put in literally days of "push-and-pull" exercises on the bolt handle for the dual purpose of perfecting themselves in the speedy and smooth operation of the bolt and of wearing the bolt in so that it would operate without friction. With the Garand M1, this is all done away with. For rapid fire, all that you have to do is pull the trigger for each shot. . . .

When the Springfield was the standard weapon for the National Matches the rules permitted a trigger pull of 3 pounds or over. It was customary to adjust the Springfield so that the trigger pull would be in the neighborhood of 3.5 pounds. The trigger pull of the M1 rifle cannot be made this low. If it is, it will not be long before enough wear occurs to cause the hammer to jar off the sear with the closing of the bolt and thus cause two or more shots to be fired in rapid succession. It has been found that with the M1 rifle it is not practicable or safe to adjust the trigger pull to less than 4.5 pounds.

The firing mechanism of the M1 rifle, with its swinging hammer, has been criticized by some target shooters on the assumption that it would give a slower "lock time" than the M1903 firing pin. Lock time is the interval between the pulling of the trigger and the striking of the primer, and for best results on the target range should be short, so as to minimize any motion of the rifle after the trigger is pulled and before the bullet has left.

However, Mr. Garand himself, who has given much study to the question of lock time, and who designed the super-speed firing mechanism used at one time on the International Match rifles, states that the lock time of the M1 is no greater than that of the Springfield, and can if desired be made even shorter. . . .

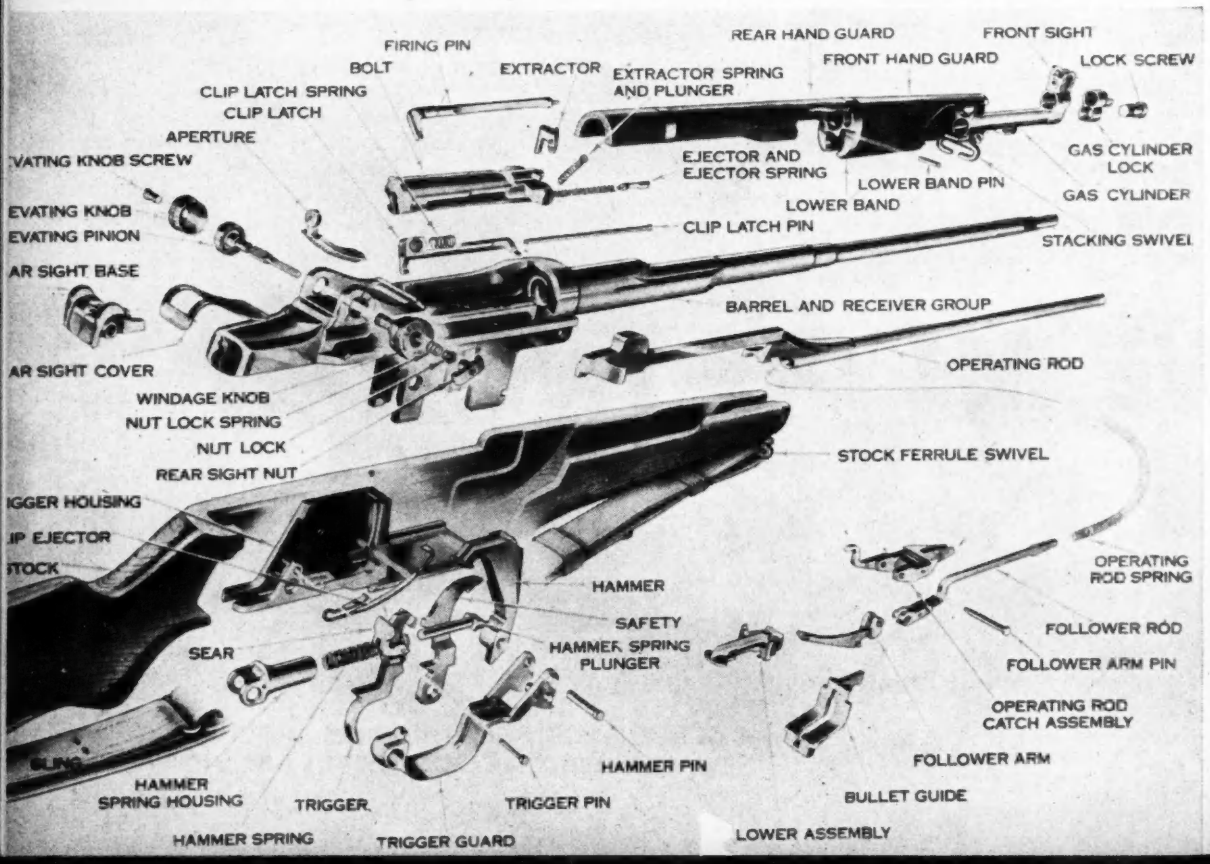
There have been some malfunctions of the M1 rifle. These have been few in number and most of them were failures to feed the seventh round out of the magazine, with the bolt closing on an empty chamber.

Also, occasionally when a shooter has fumbled the loading of his second clip in rapid fire the bolt has failed to close completely on the first round out of the second clip, resulting in a failure to fire when the trigger was pulled. This, however, is easily avoided by care in loading the clip and by noting whether or not the operating handle has gone entirely forward. If there is any sluggishness in the closing action, a forward blow in the operating handle will of course correct the difficulty. If the loading is properly done, there will be no sluggishness in the first place.

One great advantage the Garand has over the Springfield is in the superior design of the sights. The Springfield was always handicapped by not having a peep sight close to the eye, which the Garand has. The Springfield had no mechanical adjustment of clicks on the elevation scale, while the Garand has a sight that goes up by one-minute clicks with what amounts to its own built-in micrometer. On the windage scale the old Springfield had a screw adjustment, but the motion was irregular and jerky and the graduations were in "points", which are equivalent to four minutes of angle; and the only way to make an intermediate setting was to guess at it, trying to estimate by eye the position of the line so as to split the very small graduations into one-fourth. On the Garand the windage again has its own built-in micrometer clicks.

Despite the superior design, the greatest complaint against the M1 in matches has been directed against the sights. In the

Here, in an 'exploded view,' are all of the inner workings of Uncle Sam's Garand rifle. Actually, it is not as complicated as it looks



first place, in order to make the rear sight hold its adjustments, there is a locking bar on the right-hand side which must be loosened before making an adjustment and then tightened afterward. This makes the adjustment slow and also becomes quite wearing on the fingers during a long match. A new design of the adjusting mechanism on the Garand rear sight has been tested and adopted since the end of the war, but unfortunately most of the rifles in service have the older-style sight with the locking cross bar on the right-hand end. However, the new-style mechanism can be applied to rifles already manufactured. Chances are that this will be done in the future for such National Match M1 rifles as may be specially prepared by the Ordnance Department.

However, the major complaint against the sights is the large size of the aperture in the rear sight and the wide post used in the front sight.

These features were placed on the rifle because of their combat efficiency and especially because they allow the sights to be seen in very dim light in which a smaller aperture would be unusable. For combat use such sights are ideal. However, on the target range they do not permit as close an aim to be taken as did the smaller aperture and narrower blade of the old M1903 Springfield sights.

Again there is nothing to prevent the use of a narrower front blade and a smaller rear aperture on special National Match rifles or rifles used for target purposes if this is deemed desirable by the National Board for the Promotion of Rifle Practice and by the Ordnance Department.

As to ammunition, most of the match shooting since the war has been done with two kinds of ammunition: the .30 caliber M2 ball having a flat-base 152-grain bullet and the .30 caliber armor-piercing having a flat-base 168-grain bullet. The ball ammunition seems to be preferable for short ranges but the armor-piercing, on account of its heavier bullet, does better at 500 and 600 yards.

If the best results are to be obtained in matches with the M1 rifle, it will no doubt be necessary to manufacture and select specially accurate match ammunition as was done before World War II. . . .

The U. S. Marine Corps in their rifle matches of 1946, 1947, and 1948 have done exceptionally fine shooting with the M1 rifle and issue M2 armor-piercing ammunition. The excellent results obtained would never have been possible without energetic, forceful, and clever work on the part of the Corps in studying the M1 rifle and in devising and putting into execution some well-thought-out and thoroughly-tested methods of improving its accuracy. . . .

As a first requisite, they secured the services of a squad of seasoned Marine rifle shots of known excellence. Each change on the rifles was tested by having these fine shots fire the guns before and after the change, noting the effect on the accuracy attained. In a year or so, a lot was learned about how to improve M1 accuracy; and more is still being learned as the armorers gain experience in servicing the guns of the match shooters.

During June, 1948, while the Marine Corps matches were being fired at Quantico, I visited their rifle range and Master Sergeant Emmet B. McKinney, considered one of the most expert armorers in the Marine Corps, explained, step by step, his procedure for making the M1 into a match rifle.

This procedure is as follows:

Stock: The fit of the stock to the action is most important. It should be firmly and evenly clamped between the trigger group and the receiver; at points where there is no clamping action, the wood should be relieved so that it does not bear at all.

If the stock is removed from the gun, it will be seen that where the rear end of the receiver rested, there is a horseshoe-shaped bearing surface extending about 1¼ inches toward the front. This is the rear top bearing surface of the stock, and should be left as it is. The distance between the front of this bearing surface and the two recoil shoulders in the stock is about 2⅜ inches. On this wooden surface, there should be no contact between the receiver and the stock. The Marine armorers dress the top surface of the stock down with a rasp until daylight can be seen between receiver and stock at this point when the gun is assembled.

The main clamping action takes place where the forward extension of the trigger group bears on the bottom of the stock at each side of the magazine well; also at the corresponding top wooden surfaces of the stock, on each side of the magazine where they make contact with the receiver. An examination of these wooden surfaces will show whether or not they appear to have been bearing evenly. If not, one side or the other will be marked more deeply by the contact of the metal parts. The side which has been bearing more heavily should be relieved until the pressure seems even on both sides.

The clamping action of the trigger group, when the gun is assembled, should be neither too firm nor too loose. This can be determined by assembling the gun to the stock and noting the point where resistance is encountered in closing the trigger guard. This should be when the rear end of the trigger guard, in its closing motion, has passed about ⅜ inch beyond the point of the trigger. If resistance is encountered earlier in swinging the trigger guard shut, a very small amount of wood should be removed from the bearing surfaces, *(Continued on page 44)*

Biggest compliment for John Garand's rifle came from Japanese during war. They copied it, lock, stock, and barrel! Only a few were made

MAJ. GEN. JULIAN S. HATCHER is, next to John Garand himself, the nation's best-qualified expert on the M1 rifle. Hatcher was at Springfield in 1917 when the early semi-automatics were tested by this Government, and has been in on every subsequent development in the long evolution of the 'US Rifle, Caliber .30, M1.'

COOK TOPS IN OLYMPIC RIFLE

20-YEAR-OLD D. C. STUDENT SCORES IN LONDON EVENT

Here, exactly as they reached NRA headquarters, via newspaper and cable, are the results of U. S. participation in the rifle and pistol events at London last month:

MK298/3
BISLEY CAMP WOKING 42 3 1442 VIA MACKAY
NATRIFLE WASHINGTONDC
COOK WINS OLYMPIC SMALLBORE CHAMPIONSHIP
COOK FIRST FIVE NINETYNINE WITH FORTY THREE
XS COMMA WALTER TOMSEN SECOND FIVE NINETY-
NINE WITH FORTYTWO XS JONAS JONSSON OF
SWEDEN THIRD WITH FIVE NINETYSEVEN VAUGHN
CAIL TIED FOR SIXTH WITH FIVE NINETYSIX

UPSET BY D.C.'S ART COOK MARKS OLYMPIC SHOOT

Bisley, England, Aug. 3.—Calm Arthur Cook, little 114-pounder from Washington, D. C., sprang one of the biggest upsets of the fourteenth Olympiad today when he won the 50-meter small-bore rifle championship.

Cook

He had a near perfect score of 599 out of 600, same as Walter Tomsen of Flushing, N. Y. But the mechanical engineering major at the University of Maryland won the gold medal by scoring 43 bullseyes to 42 for Tomsen.

The two Americans' one-two finish was surprising inasmuch as several Scandinavian sharpshooters were touted as the men to beat. In third place was 46-year-old Swedish ace Jonas Jonsson with 597. Trailing were Norwegians Halvor Kongsjorden and T. Skredegaard, also with 597. Places were determined by the respective number of bullseyes.

"Cookie," baby of the American delegation at 20 years, was the calmest marksman on the range. He was modest in victory. "I'm delighted to have won," he said, "but I think Tomsen is a better rifleman."

YW52 GB70 SPH63 BROOKWOOD 21 2 1548 VIA RCA
NATRIFLE WASHINGTONDC
VASQUEZ CAM PERU FIRST OLYMPIC FREE PISTOL
545 SCHNYDER SWISS SECOND 539 ULLMAN SWEDEN
THIRD SAME TOTAL BENNER FOURTH SAME TOTAL

PERUVIAN WINS SHOOT

Bisley, England, Aug. 2 (AP).—Peruvian sharpshooter E. Vasquez Cam scored 545 points out of a possible 600 today to win the Olympics 50 meter (54.68 yards) free pistol event.

Huelet Benner, Ft. Knox, Kentucky, scored 539 for fourth place. He was the high-ranking American entrant in the event. Second among the American entries and thirteenth in the field was Walter R. Walsh of Arlington, Va., with 525 points.

OLYMPIC MATCH SUMMARIES

50-METER SMALL-BORE RIFLE—First, Arthur Cook, USA, 599 points, 43 Xs (bullseyes); second, Walter Tomsen (USA), 599 points, 42 Xs; 3, Jonas Jonsson (Sweden), 597 points; fourth, (tie), H. Kongsjorden (Norway) and T. Skdedegaard (Norway), 597 each; sixth, L. Bandwin Ponte (Peru), 596 points.

*50-METER FREE PISTOL—1, E. Vasquez Cam, Peru, 545 points of possible 600; *2, Rudolf Schnyder, Switzerland, 539; 3, Torsten Ullman, Sweden, 539; 4, Sergt. Huelet L. Benner, USA, 539; 5, Beat Rhyner, Switzerland, 536; 6, Angel Leon Gonzalo, Spain, 534; 7, A. Balogh, Hungary, 532; 8, M. J. Lafortune, Belgium, 527; 9, E. A. Saarnikko, Finland, 527; 10, S. M. Nordluns, Sweden, 527; 13, Walter R. Walsh, USA, 525; 17, Quentin T. Brooks, USA, 523.*

* Tied with Ullman and Benner for second, but had most hits.

MK1162/7
UXBRIDGECAMP 22 7 832A VIA COMMERCIAL
LC NATRIFLE WASHINGTONDC
NO PLACES OLYMPIC RAPID PISTOL OR FREE
RIFLE

300-METER FREE RIFLE—1, Emil Grunig, Switzerland, 1120 out of possible 1200 points; 2, P. A. Janhonen, Finland, 1114; 3, W. Rogeberg, Norway, 1112; 4, K. Johannsson, Sweden, 1104; 5, V. Leskinen, Finland, 1103; 6, K. Elo, Finland, 1095; 7, H. Kongsjorden, Norway, 1093; 8, I. Erben, Sweden, 1091; 9, O. Horber, Switzerland, 1080; 10, Emmet G. Swanson, USA, 1079; 16, Arthur C. Jackson, USA, 1061; 18, Frank T. Parsons, USA, 1057.

25-METER RAPID-FIRE PISTOL—1, L. K. Takacs, Hungary, 580 out of 600 (new world record; old record, 570, by Carlos Valiente of Argentina in 1947); 2, Carlos Valiente, Argentina, 571; 3, Sven Lundquist, Sweden, 569; 4, Torsten Ullman, Sweden, 564; 5, I. Ravilo, Finland, 563; 6, V. J. Heusla, Finland, 563 (fewer hits in center of target); 13, Frank Robert Chow, USA, 554; 23, Philip Clay Roettinger, USA, 554; 25, John B. Layton, USA, 548.

Swedes Tie U.S. In Olympic Shoot

Bisley, England, Aug. 7 (AP).—American pistol and rifle marksman tied with Sweden for the Olympic team shooting championship today, each with 18 points, when final point tabulations were completed for the four-event competition.

America's lone champion was Washington's Arthur E. Cook, 20-year-old U. of Maryland student, who scored in the 50-meter small bore rifle shoot.

The United States also took a second place in the 50-meter small bore rifle shoot and fourth place in the 50-meter free pistol event.

Although the Swedes failed to win any event, they placed well up in all four to amass the necessary 18 points. One point behind the cochampions was Switzerland with 17 points.

(Next month, the RIFLEMAN *will include complete coverage, in words and pictures, of the 1948 Olympic shooting events.)*

High in the tangled branches of a tree, an Arizona killer looks down on Goswick dogs. Fortunately, the bear did not turn and fight as sometimes happens

CATTLE-KILLING BEAR

A RENEGADE KILLER MEETS ITS END AT THE HANDS OF GILES GOSWICK, ARIZONA'S FAMED U. S. FISH AND WILDLIFE PREDATOR-CONTROL AGENT

Photographs for THE AMERICAN RIFLEMAN by Charles C. Niehuis

It's been a long chase, and the bear is up high. When hounds bark or bay while on a trail, they pull their notes out in long, rising crescendos. The cadence picks up as they near quarry. When they have him treed, the baying has a distinct note and timing, easily recognized by the experienced hunter

GILES GOSWICK is a hunter's hunter. Even in his own beloved Southwest, where almost everyone totes a rifle and does his share of shooting, Arizona's Goswick has become an almost legendary figure—a man who can go after an animal and come home with its carcass hanging across his saddle.

Goswick's reputation is solidly founded. In a lifetime of skillful hunting he has bagged 472 'predators'—wolves, bear, wildcat, and mountain lion. Of the last, Goswick has taken over 300. That is probably more of these killers than can be claimed by any other hunter of our time.

For fifteen years Goswick controlled predators for the U. S. Fish and Wildlife Service. Recently retired, he hunts now for pleasure. But his skill is still on call for rancher friends when a stock killer takes toll of their herds. Often Goswick goes to neighboring ranches to help a fellow stockman trail down a calf-stealing bear or lion. This he did recently when he went to Ben Perkin's Bar Cross Ranch on the Kaibab National Forest, south of Williams, Arizona.

Goswick arrived in the special low-geared truck in which he has rolled more than 300,000 miles. In the back were the famed Goswick hounds—veteran lion and bear chasers descended from stock brought to Arizona by Goswick's pioneer grandfather.

With Goswick as he took the trail of the killer shown above, were LIFE magazine's staffman Claude Stanush and photographer Charles C. Niehuis, who came back with the remarkable series of pictures reproduced on these pages.

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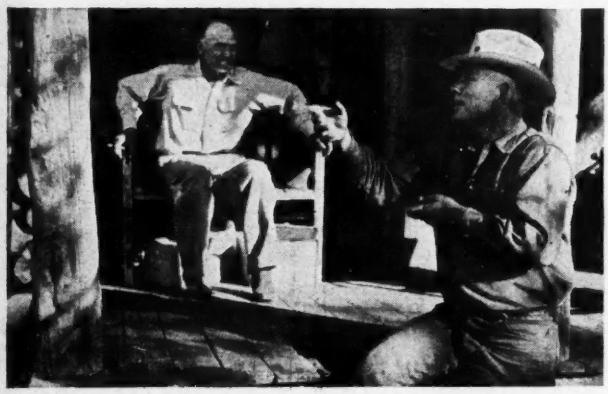
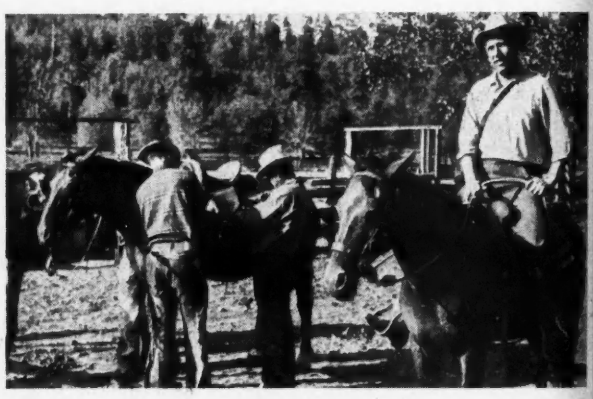
Goswick, who lives in Mayer, Arizona, is no temperamental gun crank. Standard equipment is a well-worn Winchester .30-30.

Leaning on the rail of the Bar Cross Ranch's horse corral, Goswick gets some first-hand information. The hunter will go in by truck as far as possible before loosing his dogs



In characteristically Southwestern surroundings, Giles Goswick and his host plan the hunt. Six men, including photographer Niehuis, will make up party



Next morning horses are saddled and cinches tightened for long ride that may lie ahead. Man on right is LIFE magazine's staff reporter Claude Stanush

Goswick's dogs are veterans of many a hunt. As they tumble out of his old pick-up truck, their keen noses are already scanning the ground for scent

Sun isn't very high when hunting party crosses a mountain park. Giles Goswick, who has dismounted, is scanning the ground for tracks of the 'Killer' bear

Bears, unlike the mountain lions which Goswick has so successfully hunted, seldom acquire a taste for beef. Naturally omnivorous, and meat eaters only if they find some left by man or another animal, they normally are peaceable residents of the forests. Occasionally an extremely dry spring will retard growth of vegetation just as the hungry animals emerge from their winter hibernation. In the search for other food they find newborn range calves easy to kill, and get a taste for meat. This sometimes starts a series of stock killings.

Before starting out to hunt a stock killer, Goswick learns all he can about the culprit—where the kills have been made, and where fresh 'sign' has been seen. Putting his dogs on a trail known to be that of guilty bear guards against chance of tracking down innocent animal.

Known far and wide for his amazing knowledge of renegade animals, Goswick is one of perhaps a half-dozen who have specialized in tracking down four-footed killers. If unchecked, one lion or bear may destroy much valuable meat.

Goswick's pack cools off at a waterhole. Dogs like these three- and four-year-olds are worth $300 to $500 each. The Goswick strain, originally brought from Tennessee, is well-known among hunters who go in for this rugged sport

The trail gets hot by an abandoned watering trough. The bear has been there and Goswick's trail-wise dogs recognize the fresh scent. From here on the going will be furious until Goswick's pack has its quarry treed or at bay

Gathered at the base of the tree in which the bear stands, men and dogs await the final act. Speed is essential, so bear cannot back down tree and take on dogs for a free-for-all. Dogs keep up incessant barrage of noise

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One shot from Goswick's .30-30 drops bear in midst of fighting, snarling pack. Goswick always tries to kill cleanly, to avoid chance of crippling dogs

The killer is finished and the hunt is over. After the long chase, Goswick's dogs are too excited to leave the dead bear alone, and continue to snap at carcass

Frontier Facts

By NORMAN E. SHARP

SIRED BY THE CAP-AND-BALL REVOLVER OF THE CIVIL WAR AND CHRISTENED ON THE FRONTIER, THE OLD SINGLE-ACTION COLT IS STILL ALIVE AND KICKING

BACK IN THE 1870's when the single action Colt revolver was brought out, the heads of the Colt Company must have had many a twinge of conscience over some of the other new models they placed on the market. All of them were serviceable and made nice belly guns, but few were real 'he-man' weapons. Notable among these short-lived relics were the Old Model .22-caliber 'open-top' revolvers, which shot loose in a short time, and which were replaced later by the much improved New Model line. Derringer No. 1, which did extra duty as a brass knuckle if the shot missed, and No. 2, both of which were designed for the .41 caliber short, rimfire cartridge, were notably among the absent after Derringer No. 3 came out. Of these and several others, the Single Action Army—called 'Frontier' and 'Peacemaker'—was by far the only real hand-gun.

To trace the development of this most popular hand-gun of all time, it is necessary to go back to the cap-and-ball era. The first percussion model that approaches the Frontier design is the 1851 Navy Colt of .36 caliber, which is mentioned only because of the remarkable fact that it had a one-piece walnut grip, designed almost one hundred years ago, which exactly fits the latest manufactured Frontier Model if the grip pin is removed from the extension of the trigger guard. This grip is still considered by many to be the most practical, universal-fitting grip ever designed.

Considering the illustrated models, Figure One is the 1860 Army Model Colt percussion revolver of .44 caliber. Its mechanics are the same as earlier and later single actions, the only exceptions being changes caused by the adaptation to a different type of ignition, and minor internal alterations which will be apparent as we proceed with the descriptions of the models shown. The arm was, of course, designed for black powder and ball. Ignition was by percussion caps fitted to the nipples or tubes threaded into the rear of each chamber. A few years before this model, however, Smith and Wesson had come on the market with a 'rear-loading' revolver which used a cartridge as we know it today. Their patent covered the construction of revolvers with chambers bored clear through, designed for loading from the 'back'. At that time, the closest competition in the Colt line to this advancement was the use of the paper 'cartridge' shown in the lower right corner of the cut on page 18. The method employed with a Colt was to load and ram each chamber in succession from the front of the cylinder. The hammer was at half or safety cock for this operation, which allowed the cylinder to rotate freely. Loading clearance was provided at the rear of the barrel forging, under the rear end of the barrel proper. Paper cartridges were simply a conical lead bullet with a tapered sack of black powder glued to the rear end. The tapered shape of the sack allowed easy entrance to the chamber, and also caused the sack to burst as it was rammed against the back of the chamber, thus offering a better exposure of the powder to the flash of the percussion cap.

Because of their fragile nature, the paper cartridges were put up by the powder manufacturers in boxes of six as shown by Figure 10, the box being made of two solid blocks of wood with half cavities in each part encasing the cartridge. The assembled and wrapped box was dipped in paraffine.

During the '60's and '70's, many owners of cap-and-ball weapons had them converted to use the 'new' cartridges, as shown in Figure Two. Conversion of the Colt 1860 was accomplished by turning off that portion of the rear of the cylinder which held the percussion nipples, and boring the chambers clear through, being careful to leave intact the central ratchet portion engaged by the hand to revolve the cylinder. A pressure plate with a loading gate, a firing pin, and a rear sight built in, was screwed on the frame behind the cylinder. This plate was open at the center to allow the ratchet to project through to its normal position. Since the rear sight notch on the standard model Colt was cut in the nose of the hammer, a sight was provided on the pressure plate and the standard hammer cut back a bit and flattened where it contacted the firing pin. The rammer was no longer needed so it was entirely removed and a beautifully-fitted forging containing an extractor rod was substituted, completely filling up all the original space and streamlining the appearance. The rammer catch was either filed down flush or removed entirely, and the slot filled and finished to match. This conversion provided an arm closely approaching the efficiency of a modern revolver when used single action.

The accuracy which can be obtained with the old Colts is amazing. Given a model of 1860, which shot the .44 caliber Army load, or the .36 caliber model of 1851 in perfect condi-

V 9 6 1 9 SEP 48 XU

ONE: The so-called 'civilian model' 1860 .44 caliber Colt revolver
TWO: Conversion of 1860 for use with .44 Smith & Wesson cartridge
THREE: Colt model 1872, .44 rimfire caliber. Not a conversion
FOUR: The .45 caliber Frontier model, often called 'Peacemaker'
FIVE: The rare pocket size .45 Frontier, made without an ejector
SIX: Frontier model in .32 Long caliber with the rare eagle grips
SEVEN: Colt Frontier .45 with O'Meara slip-hammer for fanning
EIGHT: Colt .45 caliber Frontier model of recent manufacture
NINE: The Bisley model in .38 Colt caliber. Note lower hammer
TEN: Paper cartridges used in the 1860's in cap-and-ball Colts
ELEVEN: Comparison of .45 caliber Colt and .22 short cartridges

tion and properly sighted, an expert using uniform loads can do about as well at fifty feet as he can with a modern hand-gun of any make. Hammer fall was heavier in the old ones and sights were definitely sub-par, but a check of the scores made around the country among the muzzle-loading groups will convince the most skeptical that real shooting can be had with the application of care, common sense and caps.

So much for percussion designs leading up to the Frontier model. When the rear-loading patent of Smith and Wesson expired, the Colt Company submitted its first military-model cartridge revolver for Government approval, but it was not accepted. This was the revolver shown in illustration Number Three. It follows closely the percussion design, including the 'open-type' frame above the cylinder and the wedge-key attachment of barrel to frame. It differs, however, in that the barrel is designed for an ejector attachment instead of a rammer. There is also a solid rear sight made integral with the barrel, a cylinder made full length for rear-loading cartridges, a frame made originally for rear-loading gate, and a hammer with a firing pin set into the left side. This is not a conversion, as many consider it, but a distinct model. It is true that some of the parts were made on the same tools as the percussion models with little or no change. For example, the trigger guard and back strap are interchangeable with 1851 models, which is equally true of Frontier models. The hammer is the same except for a shortening of the nose and the firing pin added on the side. The wedge-key and retaining screw are unchanged, and the frame is similar except for the gate recess and lack of a cap groove. The internal mechanics are the same with one notable exception. This is the double projection on the hand for engagement with the cylinder ratchet. This change was so effective in providing positive, smooth operation that some later models used it alone as a cylinder stop, dispensing with the separate cylinder lock bolt entirely. It was not good enough to do double duty, however, and Colt soon returned to the separate lock bolt principle. The major defect in the scheme *without* cylinder lock bolt was that the 'locking' action of the hand acted on a part of the cylinder near the center of rotation and with a fully loaded cylinder, the mass and leverage was so great that momentum of rotation put too great a strain on the hand with a consequent wear and deformation of parts. Faulty register was the inevitable result. The double hand, however, was most successful as a rotating agent and is used on present-day double-action Colts. The model of 1872 was chambered for the .44 caliber, Henry rim-fire cartridge and has gain twist rifling like the percussion models. Not many were made and the specimens known are closely held.

It is my personal opinion that this model was offered as a stop-gap design while the factory was working out final details and tooling up for the first Single Action Army models. It is known that developments on the Frontier model were going

ahead in 1871 and 1872. Why, then, should a hybrid model be submitted unless it was for purposes of delay and confusion. Even after Samuel Colt's death in 1862 the Company's managers were not lacking in the diplomacy and tact needed when dealing with Government officials. They knew how much red tape and bickering attended each change in the standards for the Army or Navy. I, personally, believe that the 1872 Colt was designed entirely to keep the issue open until the 1873 model could be perfected. Actually the two models were developed simultaneously, although they are tagged with different dates by collectors and historians to distinguish them more readily. The illustrated specimen, incidentally, is number 331.

The reason for its non-acceptance by the Army is generally supposed to have been the frame design with open top. The wedge-key principle of frame and barrel attachment used by Colt on all models to that time (except the Root model of 1855) was prone to 'shoot loose' if the gun was used over a period of years. With disapproval registered by the Government, Colt went immediately into the Frontier model as illustrated by Figure Four. This was the birth of the famous single action Army. It is still the same gun in many respects, though the frame now completely encloses the cylinder; the hammer is lower so it will not interfere with the sight on the rear top of the frame; the loading gate is a bit heavier and has a concealed spring; and the cylinder is fluted to reduce weight. The cylinder pin is now removable forward and is held in position by a setscrew in the front of the frame. There has been no change in the trigger-guard or back-strap except that they are both steel instead of one or both being brass. The wedge-key is conspicuously absent. Other differences are the screwed-in barrel and regular twist rifling instead of the gain twist used up to this time.

The early model Frontier Colts were .45 center-fire caliber, chambered for a 235-grain lead bullet with 40 grains of black powder. Government arsenals supplied the cartridge with 28 grains of powder. Barrels were 7½ inches for the cavalry model, 5½ inches for the artillery model and 4¾ inches on the civilian models. A pocket model was made in the 1890's on special order with a three-inch barrel. It was not popular due to its weight and size and few were made (See Figure Five). These pocket guns are among the scarcest of the Frontier models and few collectors own one. They were made without ejectors and with no recess in the frame for an ejector, as the barrel was too short to allow sufficient travel for ejection.

As more cartridges became available, models were chambered to suit. To date this hand-gun has been chambered for practically every revolver cartridge manufactured for general use. These include the .22 rim-fire; .32 Colt center fire; .32 S&W; .32-20 Winchester; .38 Colt short, long and special; .38 S&W Special; .38-40 Winchester; .41 Colt; .44-40; .44 S&W Special; .45 Government; .357 Magnum, and .45 Auto (with clips).

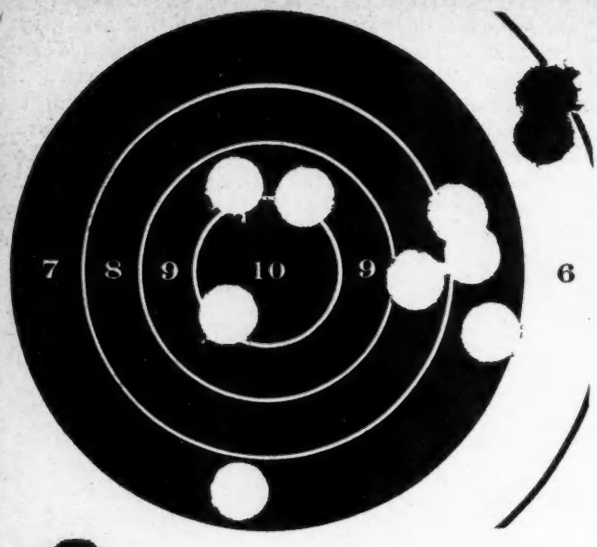
Calibers .45, .44-40, and .32-20 are the most common. The .22 caliber models are extremely rare and command a very high price. In 1888, a special target model was produced with target sights. These were made with a flat top frame and are known to collectors as 'flap top' models. They, too, are very scarce.

One of the most discussed old-time methods of shooting the Frontier Colt is 'fanning'. It is a popular conception today that tales of fanning the Colt were exaggerated and glorified to a great extent. However, a gentleman named Ed McGivern has proved to the satisfaction of the most skeptical that almost anything said of the old timers can be done. McGivern has duplicated every reasonable stunt in the shooting line that has been credited to the old time hand-gunners of the West. It is a matter of official record that McGivern has delivered five shots from a standard Frontier model, by fanning, in 1-3/10 seconds; 1-2/5 seconds; 1-1/5 seconds and 1-1/10 seconds. His best group was made in 1-1/5 seconds. Four of the shots could be covered by a half dollar and the fifth was still inside the area of a playing card. These tests were made at short range, about 20 feet, which would generally be the case in any 'fanning' contest. He adds ½ second or less for a draw from the holster.

This amazing speed, a total of 1-7/10 seconds or less, is accomplished by the two-handed method of shooting the old timers. The gun is held in one hand and the hammer is slapped rapidly and solidly with the palm of the other hand, being careful to follow through with the fanning hand to escape the recoil. The trigger must be removed or taped back so the sear does not engage the hammer. It is not necessary to alter the hammer in any way except to smooth off the knurling on the spur so that the palm will not be lacerated. Only *one* gun can be fanned, although some of our 'Westerns' have credited their heroes with two-gun-fanning: It is the fastest method known for firing a single-action revolver. When one considers that five shots can be delivered in a second, or slightly over, there is ample basis for the phrase 'spraying lead.'

An example of this type of Frontier model is shown in Figure 7. It has had the trigger removed and a special hammer substituted. This is the O'Meara 'slip-hammer.' Although it can be fanned, it actually was designed for slip-shooting, a method of dealing rapid death less popularly known than fanning, but equally as effective. In slip-shooting again, two hands are used, the gun being held in both, with the thumb of the right hand (if right handed) operating the hammer in a similar manner to fanning, but moving only the thumb instead of the whole hand. This is a particularly accurate method of hip-shooting. The elbows are braced at the side of the body above the hips and the 'triangle' formed by the angle of the forearms and the body provides an amazing steadiness. For a moving target, the whole body is turned, the arms and elbows remaining steady and unchanged relative to each other. The O'Meara slip hammer may also be operated in one hand merely by changing the natural cocking motion of the thumb to more of a right-to-left motion, allowing the thumb to slip off to the left, releasing the hammer when it has reached the full-cock position. This can be done very rapidly and with about the same accuracy as fanning. Triggers are removed or tied back, of course. Some shooters prefer to lighten the mainspring somewhat for easier operation. Slip-hammer shooting by the latter method can be done with two guns. It is the only 'souped-up' method of operating two single-action revolvers simultaneously.

While we are on the subject of fanning and 'Western bad man' styles of shooting we might digress for a moment to discuss a little matter of form in shooting that is commonly practiced in imitations of old-time gunmen of the frontier. This is the habit of raising the gun and bringing it back over the shoulder to the rear so that it is upside down and pointing directly backward. Seasoned shooters smile at this motion on the part of movie gunmen and youngsters with cap-guns. If it happened on any pistol range the regulars of the club would probably heave the offender out on his ear before someone got shot. But it is not as silly as it appears. It is a hang-over from cap-and-ball days, and still persists in the fancy of many novices who believe it is part of the shooter's act. In the days of percussion cap revolvers, one of the ever-present dangers of operating a revolver under dire



Both of these groups were made at 50 feet with the Bisley shown in Figure 9. Though fired by shooters unaccustomed to its weight and 'feel,' they demonstrate that the old gun is capable of fine accuracy in spite of its age. Group at left can be completely covered with half dollar

necessity was the jamming of the cylinder by bits of metal from the cap. Naturally, in rapid firing, there was not sufficient time to relieve a jam, nor was there a great enough interval between shots to make the over-the-shoulder motion. But with medium-fast shooting the backward movement of the revolver, and the inverted position were attained as the arm was being cocked for the next shot. In this position, the cap metal was most likely to fall clear of the moving parts. The problem was serious enough for the Colt Company to do considerable experimenting with grooves in the frame and clearances that would eliminate jamming. So don't laugh when you see this motion the next time. Correct it, but remember it is a part of the American scene, a relic of the past, that manifests itself now and then like the circling of the dog who turns around a couple of times to form himself a nest, or points his nose upwind before curling up for a nap, even if he is on a hardwood floor, and there are no mountain lions in his immediate vicinity.

Figure Eight is the Colt Frontier as it is made today, or will be, if prewar production is resumed. This specimen is embellished with factory engraving, carved ivory grips and a beautiful finish. It is .45 caliber, and practically unchanged from the first issue. Main differences are the spring catch on the cylinder pin instead of a setscrew, slight changes in the bore and rifling to meet the requirements of smokless powder, and a general strengthening of materials to accommodate the greater pressures.

The Bisley model of the Frontier Colt (Figure 9) derives its name from the international shooting contests held at Bisley, England. It is the Frontier model adapted to target shooting by utilizing a larger grip, a broader trigger with less backlash, and a lower hammer spur that could be thumb-cocked with little disturbance of the hold, and which did not interfere with the sights when in fired position. It was brought out in 1896 in the same calibers as the Frontier with the addition of the .455 Eley and excepting the .22 caliber. Barrel lengths were the same as the Frontier models, as was the finish. It was much used by target shooters until the double-action, side-swing models took preference. The specimen illustrated has a 7½ inch barrel and chambered for the .38 long Colt. It is shot regularly with .38 S&W Special wad-cutters and handles this cartridge as efficiently as the .38 long Colt. All parts are standard except that the action has been carefully honed and a grip adapter added. Bisley models were made with flat topped frames and target sights, but the usual specimen has service sights as illustrated. Rear sights were the standard notch at the rear of a groove running along the top of the frame—the same as furnished for seventy-five years on the Frontier models.

This revolver was recently loaned to Mr. C. C. Warne, Jr., who is a member of the Crowfoot Rod and Gun Club of Wilkinsburg, Pennsylvania. Mr. Warne threw the entire membership into confusion when he produced the Bisley and started to shoot a string. All wanted to try the 'old one' but none had the opportunity to accustom themselves to its weight and shooting characteristics sufficiently to make as good a target as they were capable of. Mr. Warne's group of ten shots (at left) scoring 81 was about ten points off his usual score, but all could be covered by a playing card. At 50 feet this shooting would make it mighty uncomfortable if the target happened to be a man. Mr. W. A. Sutton, of Pittsburgh, made the best group of the evening (also illustrated). Although his group was slightly low due to his unfamiliarity with the revolver, the entire five shots at 50 feet can be completely covered by a half dollar.

So don't discount the old guns and the tales of their accuracy too much, especially the Colt Frontier Model. It is agreed that with respect to rapidity of firing and reloading, there is little comparison with the present-day arm. But when you consider accuracy, simplicity, and reliability under all sorts of disadvantageous conditions, there is little difference between the performance of the modern revolver and the old timer, with its commendable role in the building of America. ♦ ♦ ♦

☆ ☆ ☆

NEXT MONTH—Of course the October RIFLEMAN will carry a complete news story of the first Olympic shooting matches since 1936 (scores wired to us will be found on page 16 in this issue). Gunsmith Tom Gresham continues his series of articles on remodeling issue Springfield rifles, giving instructions on the metal work which goes into a super-duper Springfield sporter. RIFLEMAN Art Director Jim Berryman surveys hunting in Arizona and New Mexico in the first of two articles on the Southwestern country he hunts in as often as pressure of newspaper and magazine work will allow. And shotgun chokes, a bone of contention among ardent scattergunners, come in for a comparative evaluation by Edwards Brown, Jr., of the NRA Technical Staff, which is illustrated with speed-light photographs of the flying shot. ♦ ♦ ♦

DCM TREASURE

BY T. B. GRESHAM

PART III OF THE INS AND OUTS OF MAKING A SPORTER OUT OF THAT DCM SPRINGFIELD RIFLE

CEASE FIRING! Open all bolts and settle back on your you-know-what while I dish the dope for the next relay. I call the 'scope-sighted rifle that we are now going to discuss the "standard" sporter.

The first method I'm going to give you for the stock work I owe to Henry Schoolfield, good shot and good gunsmith of Reidsville, N. C. Henry would be a better shot if he had more time to practice, but the gun nuts down in his neck of the woods keep him too busy turning out everything from muzzle loaders to fancy sporters.

Here's the story: Saw the stock off half an inch forward of the front swivel band, and four inches back of the upper tang. If you can find or borrow a blacksmith's hollow auger, cut a dowel on the grip portion of your stock an inch and a quarter in diameter, or as large as the tool will cut. Make the dowel two and three-quarter inches long. If you can't find the hollow auger, you'll have to do the job on a wood or metal lathe.

To cut that dowel the hard way, take any odd scrap of one-inch plank and make a center block, as shown at (A) with one edge roughly rounded with a rasp or plane to go down in the barrel channel of the stock. Attach with screw (B)—and you'd better drill for the screw in order not to split the stock, but don't drill all the way through to the bottom of the stock.

For safety's sake, on this unbalanced set-up, also wire into notches (D) and (E). Drill center holes in the grip end of the stock and in the center block at (C), four and a half inches from the bottom of the barrel channel. Drill in the lathe if you have a chuck that fits the headstock spindle, and drill the holes as big as your largest drill and countersink will make them. This Goldberg rig is going to be out of balance and you don't want it flying off across the room. If you use a wood lathe you'd better lace to the face plate as well as using your regular wood-turning center, and use your slowest speed. If you use a metal-working lathe, you can let the center extend through your four-jaw chuck, set the job up on centers and clamp the four jaws down to hold the center block firmly in place. Clamp each one a bit at a time, in order not to tear the center out of its hole. See the photos if the details aren't clear.

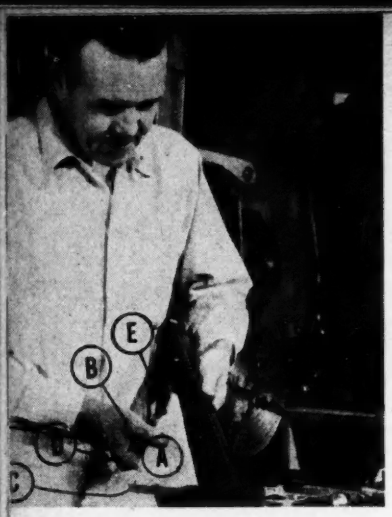
Turn your dowel to the dimensions suggested above under the hollow auger. If you use the wood lathe, be careful to get the shoulder square, or slightly under-cut. This isn't much trouble on the metal lathe.

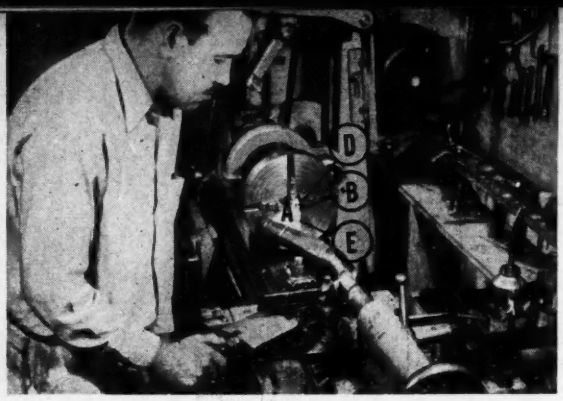
Cut out a block of walnut 2½ by 7 by 13 inches. Hold your doweled stock up against it to get the location of the hole, so that you'll have plenty of room for the comb and pistol grip. Center punch for the dowel hole.

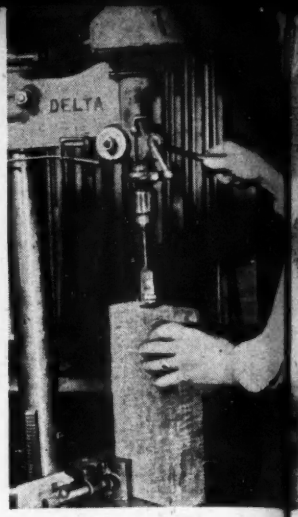
Adjust an expansive bit by trial and error on scrap until it bores a hole which is a snug fit on the dowel of your stock. You can bore the hole with a brace and bit if you'll have someone check the squareness of your boring from one angle while you check it from the other, but it is almost sure to be a little out of line. So, if you can get it in, you'd better bore it in the drill press, and run that press slowly. If your press is not already a slow-speed model, you'd better get a slow-speed attachment. You will soon save more than it costs in drills. You'll have to cut off the square top of the expansive bit to get it to work in the drill press, and it will work better under power if you file or grind the spiral off the spur and leave it smooth. Turn your Yankee vise on its side as shown in the photograph and clamp your block in it. Brace the whole works from turning against the column of the press. (I once

Peyton Richmond

Here is the basic idea covered in this third instalment of Tom Gresham's gunsmithing series. With this method, you can have a stock shaped to your own taste and still use the perfectly good bedding job Uncle Sam handed you







At left, the author shows how a block of wood can be fitted to the cut-off Springfield stock to hold it in the lathe while shaping the dowel. Center: The 'Rube Goldberg' in action. Because the work is off center, lathe should be run at slowest speed, and block wired to fore-end for safety. At right, drilling for the dowel in the rough buttstock blank

threw a thirty-pound jig fifteen feet across the shop because I neglected to have the work clamped or braced. When the drill caught, it gave the work a couple of whirls and then broke off short. Fortunately, my belly didn't happen to be in line.)

Drill an eighth-inch hole up into the dowel from where the pistol grip cap will be. This is to let out any extra air and glue. Fill grasping grooves, if any, as described in the August RIFLEMAN, where you will also find a description of the necessary metal work. Go back to the July article for the filling in of the barrel channel with Plastic Wood.

If you don't like the Plastic Wood showing around the barrel, take the barrel and action out of the stock and plane off the top part of the stock about one-sixteenth of an inch on both sides of the barrel channel. Light cuts on a jointer work best for this part, but you can do it with a plane if you're careful. Plane one side of a piece of walnut and rip off a piece a shade over one-sixteenth of an inch thick. Glue the planed side to the top of the stock, making a sort of cover over the barrel channel. You'd better put a thicker piece of smooth board over it before you tighten up the clamps. When the glue has set thoroughly you can trim up the outside even with the sides of the stock, and the inside to a good fit along the sides of the barrel, and you won't be able to see the Plastic Wood any more.

Check shoulder on stock above the dowel and the end of your block for fit. You can do this with blue carpenter's chalk. If there are any gaps, file to a close fit all around. Coat the inside of the hole in the walnut block and the dowel on the stock with glue. Put them together, lining them up carefully, and clamp endwise in your lathe, between centers, with the top of the stock down. Put a couple of blocks and wedges under the stock to keep the end pressure from forcing it or the dowel out of line. Let the whole works set for twenty-four hours. Forty-eight would be better. Then you can lay out, shape, and finish the stock as described in the August article. Drill through the bottom of the pistol grip for a convenient-sized dowel and glue it in place.

If you don't like the look of the inlays and feel that you want to tackle a bedding job, order one of the semi-finished, semi-inletted stocks advertised in the RIFLEMAN. Don't expect, however, to get fine wood, together with a butt plate, grip cap and fore-end tip for around eight bucks. Let's say we'll allow the manufacturer 25 percent profit, which will bring the cost of your stock down to six dollars. We'll guess that the shaping of the stock and putting on the fittings cost the maker three dollars, and that the fittings themselves are worth a dollar and a half more—which leaves us a dollar and a half for the value of the wood in the stock. There are two or more board feet of lumber in a one-piece sporting stock, and you can't buy extra-special select walnut for seventy-five cents a foot. If you're lucky, you may get a passable piece of medium-soft wood with the grain running any old way. If your luck is out you may get something that is wet as a sponge, half sapwood, and with a couple of windshakes. Many of these stocks are cut out so far that you'll be unable to get as good a bedding job as you already have in the military stock. Advertising ballyhoo to the contrary, there is no copying lathe, profile router or three-dimensional pantograph miller that can give as good a fit of metal to wood as a first-class hand job. If you get one of the blanks that is roughed out to "within one-eighth of an inch," I think you have a tougher job than working from a blank with the top and one side planed square.

With a squared blank, you can lay off lines and check dimensions from your two squared surfaces, but with a partly-shaped blank you have nowhere to measure from and you have to work by guess and by gosh, with a king-size helping of good luck thrown in. About four-fifths of the thought, labor, and sorrow of the stockmaker's job is in the inletting and bedding. Once you have this part done, the outside shaping is as pleasant as a picnic with a pretty blonde. I would advise doing the job by the Schoolfield method already described, or else wait for the later articles on the de luxe sporter and go whole hog by making a stock from scratch from a first class blank.

If you decide, however, to work on one of the fitted-up, partly-shaped stocks, proceed as follows: If you can't get a set of the fine Addis Brothers carving chisels from Sheffield, England—and I don't think you can—get a set of Millers Falls carving tools from one of the gunsmith's supply houses. They aren't honed for final use and they come with entirely too abrupt a bevel for use without a mallet, and this is the only way that you'll use them in stock work. (Just try taking a couple of cracks with a hammer on a nicely sharpened chisel. You'll learn the hard way, as I did.) So, you'll have to regrind and hone them. The old-fashioned hand or foot powered grindstone that dips in a trough of water is the best thing for this job, but it can be done on an emery wheel by being very careful.

Take a cut, with light pressure, on the wheel and then hold the chisel in the water pot long enough for it to be thoroughly cooled. (If you have held it on the wheel long enough, or

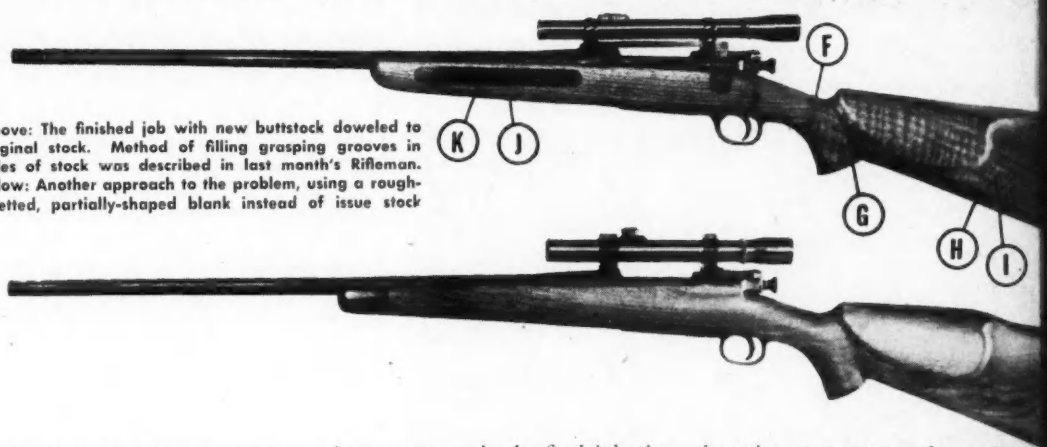
pressed hard enough to turn the thin edge blue, you have ruined the temper in the blue part, and you'll just have to grind this all out and start again.) Grind the bevel on the tool back about twice as far as it was when you got it and make the bevel flat, not rounded. Stone out the marks left by the grinder, first with coarse and then with fine Carborundum or India stones. Don't forget plenty of oil on the stones to keep them from clogging. You may have to touch the flat side of the tool with the fine stone to get ride of burrs. Then, with white Washita or hard Arkansas stones, hone the edges at a slightly more abrupt angle than you ground on them. Hone away from the edges, as this keeps down the tendency to form burrs. Finish by stropping on a piece of leather glued to a smooth wood block. A well-sharpened carving chisel will shave the hair off your arm or cut soft wood across the grain without leaving any roughness. It takes patience and practice to learn how to sharpen carving chisels, but you'll more than make up the time later on when you get to work on the stock.

If the action won't go down into the stock, smoke it with a carbide or kerosene flame or coat it lightly with Prussian blue. You must watch both these methods to make sure that they don't build up a heavy coating and give you a false impression. Clean the stuff off every now and then as you proceed with the inletting and give the metal parts a fresh coat. Try the action in the stock and cut away the places that show impressions of the color. Try to keep the action going down level and in line. When you are down so that the barrel only is touching, hold the works in line and draw a line along the top of the stock with your pencil upright but with the point sloped in so that you'll get an undersize outline of the barrel channel. Now get to work with your curved chisels or gouges and cut out the barrel channel until the corner of your small square just touches any point in the bottom of the groove when the beam and the blade of the square are resting on the edges of the barrel channel. This will give you a channel which is a true semicircle in cross section. Why? I've just forgotten, or maybe I never knew. Some of you engineers or math sharks can dig up a proof for the theorem.

You'll probably find that you have to cut in one direction on one side of the barrel channel and in the other on the opposite side to avoid starting bad splits. The same thing applies to the cuts in the action. If the wood starts to split—not just shave off—back up, turn around and go the other way. You've hit a one-way street.

Smoke the barrel and action again and fit them in. Pare the black spots away lightly and keep on repeating the blackening, fitting, and paring until you have the barrel and action down to almost half their diameter. Then fit in the magazine and trigger guard assembly by the same method. Now proceed to the final fitting of the barrel and action by pulling them down each time with the guard screws to be sure that you haven't sloped them either up or down. Be particularly careful that the recoil shoulder bears evenly all the way across and for its full depth down into the stock and see that the flat on the action, back of the recoil shoulder, is seated evenly and square. Get as broad a bearing surface as you can for the bottom of the rear tang, but relieve the wood at that famous splitting point behind the rear tang, so that it is in the clear enough to slip in a couple of sheets of paper. No matter how well you bedded the recoil shoulder, the action is almost sure to set back a little from recoil.

Get as good a bearing as you can for the top surfaces of the lower tangs, but relieve the wood back of the rear one and back of the two rear corners of the magazine box. Beware, as you do the final inletting, of cutting away too much wood at the top edges of the barrel channel and around the action. You'll get some black on these top edges as you put the metal parts down into the stock, even when there may be a wide gap between metal and wood, once the guard screws are tightened. I've fooled myself on this a number of times. Be sure that you get the action and trigger guard assembly in straight and even, so that the tightening up of the guard screws will neither twist nor bend the action out of shape.

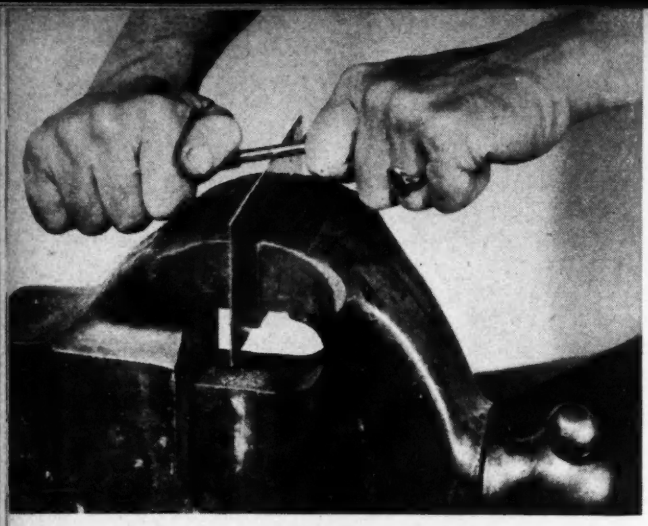


Above: The finished job with new buttstock doweled to original stock. Method of filling grasping grooves in sides of stock was described in last month's Rifleman. Below: Another approach to the problem, using a rough-inletted, partially-shaped blank instead of issue stock

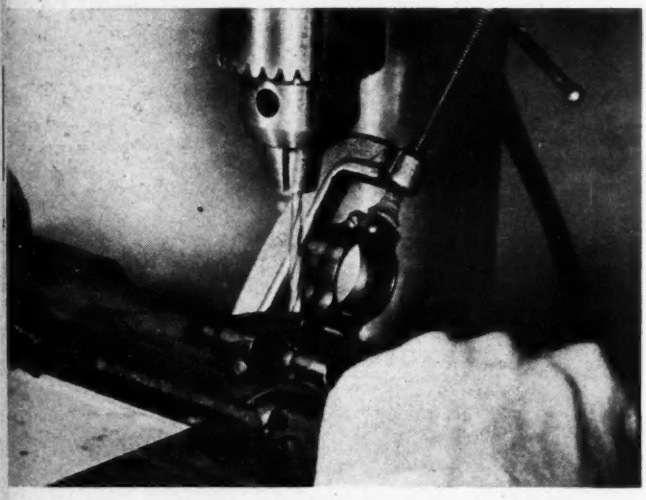
A fourteen- to sixteen-inch rat-tail file, broken off near the handle end, and dragged along by the front end is a fine tool for working out the finishing cuts on the barrel channel. A set of wood-carver's rifflers are mighty useful on a stock, both inside and out and—while it isn't as important—a few of the finer cut silversmith's rifflers are very handy for smoothing things up in odd, hard-to-get-at places. On these, you'll need your file card after every few strokes, as they clog up quickly on wood.

The old-fashioned hand scraper seems to be an unknown weapon to most amateurs and some pros. The picture shows the method of turning over the edge by rubbing hard at a very slight angle with any hardened piece of steel. Before you turn the edge each time you sharpen your scraper, draw-file it as nearly square as you can with a few strokes of the mill file. After you have finished rasping down your stock, hold your scraper with both hands so it slopes toward you at from thirty to forty-five degrees. Pull the scraper toward you with an even pressure, and that burr that you turned over at the edge will peel off the nicest hair-thin chip that you ever saw and you'll have a hard time making the scraper dig in.

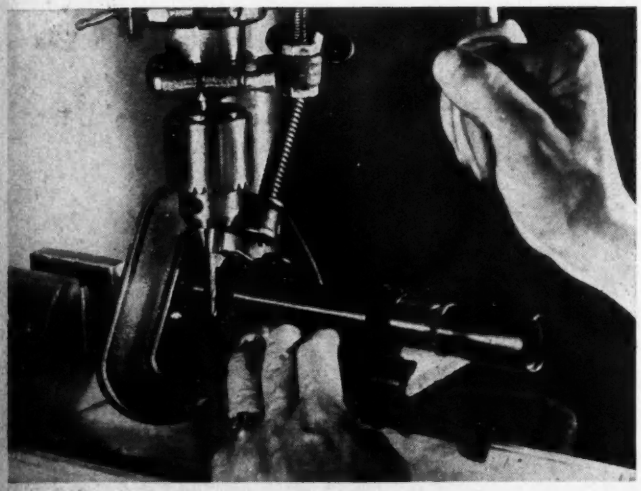
If you're working on a stock with plastic fittings you'll be



Old-fashioned wood scraper can be a valuable tool in final shaping of the stock. Here the author shows how to turn edge over by rubbing with a piece of hardened steel. Such a scraper will cut a fine, thin chip from wood



Easiest way to drill and tap holes for scope-sight mounts is to clamp them in place on the action, as shown in this simple set-up. Rear mount goes on first, and scope with mounts is then clamped on rifle for positioning



After bore sighting with scope and mounts clamped in place, holes for front mount can be drilled as shown here. Scope sight illustrated is Weaver K2.5

limited in design by the fact that these fittings can't be changed much, either as to shape or position. Don't disregard the warning pasted on the stock about cutting into the thin fore-end tip, and when you whisker the stock you had better take off the butt plate and grip cap because you can melt or warp these very easily with a little too much heat.

Some folks seem to feel that a pistol-grip stock is a pistol grip with a stock attached, a la Luger or Mauser pistol and that a cheek piece stock is a stock to which something has been added. This just ain't so, and if you want to argue with me you know what you can do with these articles from now on. Study the pictures of the two stocks, both before you start work and as you go along. After you have laid out the dimensions, as told last month, proceed with the shaping and try to avoid the pet mistakes of the beginner and of some folks who never began to learn. Above all, don't cut down too deeply in front of the comb at (F); don't cut into the sides of the stock back of the pistol grip at (G); don't shad-belly the bottom and sides of the stock at (H) and (I), and don't make the fore-end either heavily swelled out or hollow on the bottom or sides at (J) and (K).

You'll note that the lines of the mortised stock are better than those of the one with the fittings, because of the limitations imposed by the fittings. I like the Dunton cheek piece, so I have used it on the two stocks shown. It makes a cheek piece blend with the rest of the stock and it takes some of the curse off the admittedly ugly lines of a Monte Carlo comb. It's a little harder to cut the reverse curve at the rear end of the cheek piece so, if you don't want to tackle it, make the rear edge of your cheek piece the customary semicircular shape.

If you don't like the Dykem 'Blue' suggested in last month's article, I'd advise stripping and polishing your gun and sending it to a professional for bluing. He should let you off lightly if he doesn't have to strip and polish and reassemble your rifle. I can't see spending twenty to thirty dollars for equipment just to blue one or two guns.

I admit freely that I haven't used all makes of 'scopes and mounts. There ain't no Santa Claus and you can't expect a thirty-buck outfit to equal one costing seventy-five. But of those that I have used I can recommend in order of price and desirability: The Weaver J2.5 in "Q" mounts; The Weaver K2.5 in "U" top mounts; The Norman-Ford "Texan" in a Buehler mount; the Lyman Alaskan also in a Buehler mount. Buehler does an excellent job of bolt handle alteration and makes a good low safety for the Springfield.

The pictures of mounting the K2.5 are almost self-explanatory. Spot, drill, and tap for rear mount, much as I described last month for the receiver sight. Attach rear mount with its screws, put the 'scope in both mount rings and bore sight. You'll be able to move the front mount just a hair from one side to the other, even with the rear mount tight on the tube of the 'scope. The printed directions that come with the Buehler mount are excellent and easy to follow. The Buehler mount, shown with the "Texan" 'scope on the finished gun, is intended for a Mauser so it doesn't fit as neatly as it should on the Springfield.

Clean everything all up and put her together. Take her out to the range next Sunday afternoon and watch the rest of the gang turn green with envy over the sporter you've built with a little help from the RIFLEMAN and Uncle Sam. ◆ ◆ ◆

(Next month author-gunsmith Gresham will continue his step-by-step directions for remodeling the issue Springfield rifle. This, and a final article, will cover the making of a deluxe sporter—that super rifle with all of the trimmings you have dreamed of one day owning.—ED.)

DOVES ARE TRICKY TARGETS

By A. E. LUCKETT . . . IF YOU CAN'T GO TO GEORGIA FOR QUAIL THIS YEAR, AND THERE'S NO MONEY FOR THAT PHEASANT HUNT YOU PLANNED, TRY YOUR LUCK ON THE POOR MAN'S SPECIAL

SO YOU'RE A HOT SKEET SHOT who can break fifty straight . . . an occasional shotgun shot who likes to break out the old single shot once or twice a year for a little game . . . a kid of twelve starting out with the new .410 . . . or grandad, who's switched back to the little twenty double and likes to let the game come to him. Stranger, pull up a chair and get comfortable. I know the waterfowl season's bad, all the quail have gone to Georgia, and a week's shooting of the ringnecks in South Dakota costs a movie star's monthly pay. But here's the answer to the poor man's prayer. Prolific, gamey, fast of flight, tame at the start of the season, wily and taxing the skill of an expert two days later. Down south in Texas he's called the dove—more properly, the mourning dove. And stranger, dub or expert, old or young, hale or crippled, if you want lots of shooting he's your meat.

It's essential to know the habits of the game you're to hunt. The dove is no exception. Like most wild game (and people too), he's pretty fixed in his routine by the time he's a mature game bird. And since we're interested in him most during the hunting season, for the sake of brevity, we can ignore the rest of his life cycle and consider what he's doing in the fall while he's storing up fat and energy before going south for the winter.

The dove's three principal preoccupations in autumn are food, water, and sleep. Very basic, all three, but if you consider them you have the key to successful dove locating. The dove's day begins a little before sunrise, when he wakes from sleep and flies to feed. If he is near a farming area he will fly to it, since his fear of civilization is conditioned only by being shot at. As to grain, his favorite is maize* or some of its cousin feed crops. I have killed doves with corn in their craws, but the dove is smaller than his city cousin, the pigeon, and by choice he prefers small grain. Most Texas farms and ranches have a few acres at least devoted to this common feed crop and it is here that you can catch the dove at breakfast from sunrise to mid-morning. There is a hybrid variety of maize especially for use with mechanical cultivators which heads out about twelve to fifteen inches above ground. The doves love this maize and a field of it is the easiest kind of field in which to hunt, since visibility is unrestricted and the fall of crippled game can be marked, enabling you to catch it easily. If you are able, pick a field which has been harvested recently with the grain thrown between rows, to be picked up later or fed to livestock turned into the field to fatten. The doves will have spotted this feast and come to it for miles around. You'll have your limit before you've walked through the field. Another breakfast equally as popular as maize with the dove is sunflower seed. Many fields which have lain fallow for a year or two are thick with sunflowers, and farm pasture land usually has a patch. Here the doves will congregate in droves. Again, if you can find dwarf sunflowers, the variety that are knee-high instead of shoulder-high, the task of finding cripples is infinitely easier.

* Maize is a loose generic term for a feed grain crop used principally for cattle. Grossly, it is a stalk bearing at its apex the head of grain composed of round barley-like kernels. Various hybrids have been developed to function with mechanical farm equipment, and so the stalk may be anywhere from knee-high to shoulder-high.

U. S. Fish & Wildlife

The little mourning dove is only a handful of a thing, but it takes a real shotgunner to keep up with him. Once he's been shot at he's as tricky as any game bird we have

It is difficult to realize that the fuzzy chicks of early Spring will be top game targets by the time September rolls around. Dove season is always early

Suppose we're in the jalopy driving along a Texas lane just at sunrise and spot a field of maize or sunflowers. Doves are circling above it, and some are in trees here and there. If there are more than two of us, the party should split and half scatter to sit down and cover the west end of the field. They should sit comfortably and inconspicuously, and wait for the doves to fly by. The other half should go to the east end and walk down the field. This is done because the early morning sun is bright in Texas, and if you face it more than half the time, you'll lose your dove in the glare. Try to keep the sun at your back so the doves have trouble seeing you, instead of you them. Keep alert for that peculiar whinnying whicker that is the sound of the alarmed dove taking off. Most of your shots will be on rising birds pretty much dead ahead, going almost straight away. They will be very similar to trap shots. But for variety, you'll have overhead shots, head-on, straight-away, quartering, and full ninety degree. The speed and distance will vary with the amount of shooting the doves have had. If you're out on the opening day of the season or have picked an isolated area which hasn't been hunted (if the season has been going on awhile), you'll find birds are rising only five to fifteen yards ahead and don't seem to be in a big hurry. In other words, shots are easy. If you're a meat-hunter (I'm not being insulting—some are strictly out for food and their reasons are valid) of mediocre skill, you can take them on the ground. If you're a mediocre wing-shot, early morning shooting offers the best chance for kills, because after you've shot over the field once things will change. You won't need much, if any, lead and your best gun is one throwing an open pattern—cylinder, improved cylinder, skeet bore, open Polychoke, .755, or spreader tube if you've a Cutts Compensator. If you don't have a gun of one of these bores, you'd better wait until the birds get where your pattern is more open. Of course, waiting them out takes self-control. But a full or modified choke at close range makes a mess of dirt, bloody feathers, and sausage meat of your bird.

Always try to mark the course of a bird you have reason to believe is wounded. Although they're small, doves are sturdy, and only a broken wing or shot in the brain or spinal cord will cause them to fall immediately. A bird with a mortal wound in heart, lungs, or major blood-vessels will fly apparently normally until hemorrhage makes it weak. It may go a hundred yards and make a normal-looking landing, but if you spot it carefully and walk over, you'll pick up a dead bird. Birds with crippling but not immediately fatal wounds, such as broken legs or intestinal wounds, tend, if not disturbed, to light after going fifty to a hundred yards. They frequently will allow you to approach within a few yards before they fly. Their seeming incapacity to make off may cause you to believe they can be picked up, but keep your gun ready if you don't wish to watch your wounded bird flap over the horizon.

A retriever would be a big help, but most dove hunters hunt without a dog. So here's a trick that's helpful in finding a wounded or dead bird downed a long way off. First estimate the distance, then sight any two significant objects—tree, house, or windmill—in line with the bird. You can then pace off the distance and come to the bird without keeping your eye glued to the spot where it fell. This is of advantage because you may get other shots on the way. You can shoot and kill, pick up the other birds, and go on to the distant bird. You can even go off course if you locate two objects in a line with your bird. All this is, of course, old stuff to some hunters. But it is surprising how many experienced hunters depend on guesswork to locate birds. And in a maize field a mile square, one row looks just like the next, and a dead dove blends perfectly with the leaves and ground so that ten feet away you may not see him.

Of course we got our limit of ten birds apiece going through the field, but our friends at the end weren't so lucky. Maybe they got only four or five. It's between eight and nine o'clock now, and as we've watched the birds fly out of the field, the ones that haven't circled back have headed for a tank about a mile away. Unless there's been unusual weather you can depend on West Texas to be dry. Farmers and ranchers scoop out depressions and build dirt dams to catch rainfall. These supplement the water pumped by windmills into small concrete reservoirs. Both are called tanks, and it is to these that doves go to water after feeding. Of course, if there is a small creek or river near, they will fly to it, too.

Tanks or waterholes usually are surrounded by trees which offer some concealment. The only trick is to get concealed without obstructing chances for a shot. The over-zealous hunter conceals himself so well that his field of view is restricted and the swinging of his gun is hampered. Doves usually make a pass to inspect a waterhole if they are at all suspicious. If someone is clearly in view, a frightened dove will leave the county. If things look quiet they may fly directly into water, or they may light in a nearby tree and later fly in. This is a situation made to order for the beginning shot—*if* he keeps cool and uses his head he can make his shots as easy or hard as he pleases. We've got our limit, so after a long drink of cool water from the windmill let's sit in the shade of a mesquite and watch our less lucky comrades at work.

As usual, at least one gets out in the open. And consequently he gets nothing but long shots. If he's an artist with a full choke he'll do all right. But usually he isn't. Another gets back under a mesquite. But he's made two mistakes. He's five yards from the waterhole and he's under a dense, low tree. "What's wrong with that?" you ask, "Doesn't he want easy shots?" Well, being close to the waterhole cuts his vision on approaching doves. As he is now, fifty percent of the doves coming in will come over his back. If he were twenty yards back, the situation would be altered so that only ten to fifteen percent would be over his back. The rest would be head-on, cross, or quartering. It's true these are harder shots, but if the doves come in fast on a pass, those *(Continued on page 45)*

SPORTSMAN 999 REVOLVER

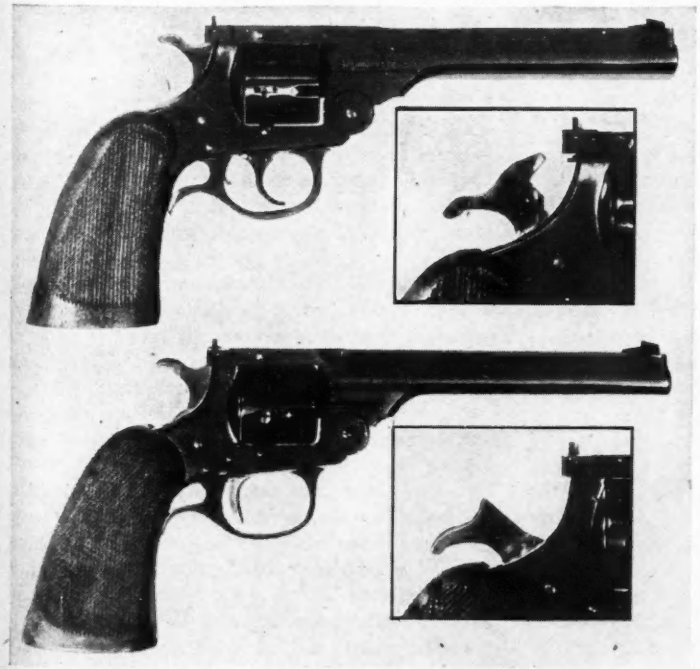
NEARLY A HUNDRED years ago, there were three Wesson brothers in Worcester, Massachusetts. Daniel B. Wesson founded Smith and Wesson. Edwin Wesson manufactured the Wesson and Leavitt revolver at Northboro, Massachusetts.

The third brother was Frank Wesson, who made pistols, carbines, sporting rifles, and target rifles under a patent of Frank Wesson and N. S. Harrington, and numerous patents of his own. In 1871, Gilbert H. Harrington joined the firm. In 1874, Wesson sold out to Harrington, who took William A. Richardson into the company and called it "Harrington & Richardson."

H & R made revolvers until 1880, then obtained a license to make shotguns on the Anson and Deeley system. In 1894, it moved to the present location on Park Avenue in Worcester.

Until 1931, H & R was known as a maker of shotguns and a line of inexpensive pocket revolvers. For a time the firm also made automatic pistols of the same design as those by Webley & Scott in Birmingham, England. These guns were intended for self-defense rather than target work and were built as inexpensively as possible.

In 1931, however, the company brought out a .22 caliber single-shot target pistol which had a number of advanced features and in which no pains or expense were spared to achieve the ultimate in accuracy. In a short time, the H & R U.S.R.A. Model single-shot pistol became the No. 1 American target pistol. This gun, unfortunately, is no longer made.



Comparison of a new-production H & R Sportsman revolver (above) with a prewar model (below) shows the main difference to be a shortened hammer fall and the firing pin made integral with hammer (see insets). Upper gun is double action, lower single

Soon after 1931, H & R brought out two revolvers with accuracy equal to any on the market. These were the Sportsman single-action and the Sportsman double-action, both of which were highly popular until they dropped out of sight during the recent war.

After the war the Sportsman revolvers were quite slow getting back onto dealers' shelves. They are available now—in either single- or double-action. Comparison of one of the new productions with an old Sportsman revolver of pre-war manufacture shows that the hammer fall has been shortened and the firing pin has been made integral with the hammer. Otherwise there is little change in design or performance, both of which were—and still are—excellent.

The Sportsman guns weigh 30 ounces, have 6-inch barrels, 9-shot cylinders, and super-speed short-action locks. The stocks, designed by Walter F. Roper, are full sized, well rounded, and extremely comfortable. The tang of the trigger guard extends to the rear to fill the space between the back of the guard and the front of the grip, permitting the second finger to aid in supporting the gun. To me, the Sportsman revolver has the best and most comfortable grip of any revolver on the market. The stocks are made of real walnut, nicely checkered.

Sights are 7.3 inches apart, and are adjustable, the rear sight for windage and the front sight for range. The front sight adjusting screw is flattened on opposite sides of the point so that it moves by half turns, and locks in position by the spring pressure of the sight leaf on the flat portions. A half-turn of the front sight moves the group approximately ½ inch at 20 yards and 1¼ inches at 50 yards. The windage adjustment is by two screws, each of which pushes on one side of the rear sight leaf. A quarter-turn moves the group approximately the same distance as a half-turn of the front sight.

Both revolvers have the safety cylinder for high-speed ammunition. Made of heat-treated steel which has ample strength for the high-speed stuff, the cylinders have a raised ring around the outside edge to prevent particles from flying out of a burst head rim.

Sportsman guns are safe for use with high-speed ammunition, though they function smoother with regular-speed variety. The better operation with ordinary speed ammo is true of any .22 rim-fire revolver. With high-speed loads, the heads exert pressure against the recoil plate and a severe drag is set up, making the gun hard to cock. If you use high-speed ammunition and have this trouble, switch to regular-speed ammunition for better accuracy and easier functioning.

H & R Sportsman revolvers sell for $44.95.—MAJ. GEN. JULIAN S. HATCHER. ♦ ♦ ♦

During these hectic, history-making days antelope meat was the main entree on every laborer's menu . . . . . .

Wind in the West

By JIM BERRYMAN

HALF A CENTURY ago, a wildlife survey of America was something to give hopeful hunters 'that all-gone feeling.' One of the saddest aspects of that pitiful panorama was the almost complete extermination of the pronghorn antelope. This interesting little animal is distinctly a native of North America, no kin of the African or Asiatic antelope. And contrary to erroneous beliefs nurtured by too many people, the pronghorn is not a deer . . . nor even a close relative. His is a most exclusive old American family. Students of zŏology call him an Ungulate, the only one found in North America, and he has hollow horns which he sheds annually. No other inhabitant of our continent has the equipment with which to perform this amazing feat.

The pronghorn has really very little similarity to any of the several types of deer in this country. He has been described as an ugly little creature, yet many call him a handsome little devil. At any rate, his appearance is most bizarre.

I think the most accurate description of the American antelope is one written some years ago by Jack O'Connor, the well-known Southwestern hunter-author: "The sides and belly are white; so is the rump patch, which is composed of erectile hairs and can be 'flashed' as a danger signal, just as the deer of the East use their white tails. There are also stripes of white alternating with buff on the necks of the animals. The saddle is buff, and the horns when fresh grown are dead black and come out directly above the eyesockets. The head of a large buck looks like that of some large and grotesque beetle."

The average buck will scale about one hundred pounds, a doe runs between seventy and seventy-five. Both sexes bear horns. The male's fancy headgear usually measure nineteen and a fraction inches along the outside curve. The spread seldom exceeds a foot and a half. Quite often the horns of an old buck have white tips, 'ivory tips' as they are known to trophy hunters. Females' horns are much shorter, seldom extending beyond the ears.

I have heard the observation that nature did the antelope a dirty trick by dressing him so jauntily. He is indeed quite a dude in the animal kingdom, but when you know the color scheme of his 'living room' you will find he blends in with it to perfection. The truth is Old Dame Nature was really in top form when she camouflaged this racy child of her. He is first of all an open country animal . . . apparently preferring the flat plains and gently rolling sand dunes. Yet he spends many months in the sub-timberline tracts where small hillocks, flat rocks, and shallow canyons foster scrub grass and scrubbier

juniper growth. All of which is chromatic background for the pronghorn. It takes a practiced eye-plus to discern even a sizable number of his species quietly grazing in this brown-gray-white setting.

Jack Bradford, one of the northern Arizona's better hunters, has tried patiently to teach me how to spot a herd of feeding antelope. And from personal experience, I can assure you, they are hard to see until they move . . . and when they move, Brother, it doesn't do you any good to have seen them . . . they really move.

Before going into the speed of the American pronghorn, a few words must be devoted to his vision. The standard of human visual perfection is 20-20 . . . an antelope with that kind of eyesight would have a tin cup in his hoof. This streamlined speedster doesn't depend on hearing or scent for preservation, he has 8X telescopic lenses 'built in at the factory' as standard equipment. He sees danger.

And when he sees it, there is action. Perhaps that old saying: "A pronghorn can outrun a bullet" is a slight exaggeration, but I'm sure he can make a .30-30 slug sweat to keep up with him. A herd not handicapped by fawns can clip off fifty miles an hour—they've been clocked many times by motorists and engineers. Individual does have been timed at sixty for short bursts (yes, 'the little woman' packs higher compression than her boy friend. Even a ten-day-old fawn can outrun a fleet dog.

sAgain

Also, antelope further differ from deer in not ducking for cover at the approach of an enemy . . . they just throw dust in his eyes. The most skilled of our hunting gentry have been innumerably disgusted at the 'broken-field' running tactics of these seemingly jet-propelled plains pets. And though chagrined over their zigging and zagging, I have yet to find a disappointed hunter who didn't marvel at and admire the beautiful, coordinated precision of an antelope band under a full head of steam.

From the first moment the first Spanish conquistador focused his food-searching eyes on this will-o'-the-wisp of the great plains, the American pronghorn has furnished a challenge to rifleman—whether they hunted for meat, trophy, or sport. This speediest of all Western World targets should have been preserved forever as the natural heritage of any American who wished to pit his skill against the best our wonderful free land had to offer.

Of course, it is well nigh impossible to exactly estimate how many of these fleet four-footers existed a hundred years ago, but wildlife analysts figure roughly somewhere between 20 and 35 million of them roamed the whole great plains-intermountain region in the mid-1800's. That line from the old song, "Home on the Range," covered a vast territory: from southern Alberta, Manitoba, and Saskatchewan it reached down to central Mexico, and extended from the central plains states westward to southeastern Oregon and southern California.

Before the determined advance of Yankee pioneers, the Indian, the buffalo, and the antelope made a valiant but futile stand . . . eventually biting the bitter dust stirred up by the grinding, relentless wheels of civilization's progress. Homesteaders, professional hunters, and railroad builders waged a merciless campaign of slaughter on the little pronghorn. During the hectic, history-making days when the Union Pacific was being built, antelope meat was the main entree on every laborer's menu. Right after the Civil War, when young men started taking Horace Greeley's oft-quoted words seriously, and the boom in the West began to zoom, whole pronghorn carcasses were sold in Colorado towns for as little as twenty-five cents. Squadrons of ex-Union and Confederate cavalrymen made daily raids on the antelope herds, using the then-new breech-loading Sharps carbines. Groups of sharpshooters, hired by the railroads to aid in feeding the tie-workers, butchered pregnant does and gangling fawns to fill their creaking buckboards with meat. They drove the frightened and laboring animals into dry arroyos and dropped them with deadly precision firing the '66 Springfield, a rifled weapon of .50 caliber.

Two decades of such an intensive killing campaign went a long way toward exterminating the pronghorn in some states, and he was nearing extinction in most others. Five more years of such treatment, coupled with accumulating adverse factors, and he would have surely joined the dinosaur . . . just some bones to be wired together in museums.

But it is neither fair nor factual to blame gunpowder alone for the terrific depletion of the great herds once totaling millions of head. Just about every other odds-against condition in the book was brought to bear on the ill-fated hollow-horns. The Union Pacific in the north and the Southern Pacific in the south, always following river beds to construct steel roads for their iron horses, fenced in thousands of miles of right-of-way, and deprived the antelope of much of his water in that arid land. Range fences cut him off from countless acres of his winter grazing. Domestic stock brought and bred by settlers nibbled his summer fodder to the roots. And homesteaders' sheep passed on to him every disease they carried.

When realization finally dawned that the huge antelope herds had dwindled to a mere handful of animals, Wyoming, Colorado, and the Territory of New Mexico took quick action in 1901 in a last minute attempt to protect what few

THE RIFLEMAN'S ART DIRECTOR REPORTS ON A PERSONAL SURVEY OF THE FALL AND RISE OF THE SPEEDIEST OF AMERICAN BIG GAME

pronghorn eked out a pitiful existence within their borders. Other Western states followed the example with closed seasons and sporadic endeavors at seasonal feeding. But poaching, droughts, and diseases continued to overbalance the scales. As recently as 1923, a federal survey showed something less than 27,000 pronghorn antelope in the United States with a total North American population of approximately only 30,000!

Much criticism has been aimed and fired at federal and state agencies and bureaus, some of that criticism has been loaded with political poppycock—and some of it fused with justified indignation. But the work done during the last twenty years by national conservation organizations and state

game commissions deserves nothing less than a verbal barrage of bouquets.

Working hand in hand with federal committees, state commissions embarked on strenuous programs of conserving and restocking our country's sadly depleted game and fish resources. Their net accomplishments to date are amazing, and worthy of the undying gratitude of all men who hunt . . . and want their children's children to experience the same thrill.

To be specific in the case of the pronghorn antelope: Seven Western states have built up his number from the feeble 27,000 in 1923 to better than 130,000 at the end of 1947. Adding over 100,000 to the breezy little buckskins' census in 24 years has required plenty of concentrated effort entailing study, legislation, and supervision. The state of Wyoming had more than twenty years of closed seasons in this period, and today, with the nation's number one pronghorn population totaling between 40,000 and 50,000, grants only 20,000 permits and schedules a brief season. Wyoming is one of the few states which can now afford to allow telescopic sights on rifles and place no limitation on the age or sex of the animal killed, and all center-fire cartridges are permitted.

Arizona, which was, at one time, almost the hub of the antelope empire, today has several small bands scattered throughout the state, but only one large herd . . . the one enjoying complete protective custody in the National Park area around Flagstaff. But the State's overall count hovers close to the 5,000 mark, so the ban on hunting hollow-horns remains on for the present. Arizona, like her neighbor, New Mexico, is going about the problem with system and science: better utilization of available grazing land, herd-cutting and relocation to prevent starvation, and highly active predator control. New Mexico ranks second to Wyoming in the number of antelope inhabitants, and apparently State Game Warden Elliot Barker intends to keep his bailiwick one of the world's happier hunting grounds for residents and out-of-Staters who want a try at downing the galloping ghost of the plains. To Barker and his Wildlife Restoration Director, Paul Russell, goes the credit for successfully developing an antelope trapping method which has become a more or less standard pattern for cutting out seed stock from an overpopulated herd to be transplanted as the nucleus for a new community. The Barker-Russell team has utilized the net-pen system to snare more than 2,000 head of the animals and start 50 completely new herds of thriving pronghorns.

1946 and '47 saw short, rigidly controlled pronghorn seasons in seven states and the kill approximated 10,000 animals each year. Now, don't be alarmed at this figure . . . it is astoundingly close to what the conservation organizations proclaimed as a normal margin of safe herd-control.

Antelope seasons are 'movable feasts'—depending on 'What Conditions Warrant,' as the state game commissions' booklets say. Actually, the best time to bag a prongie is late in summer when bucks and does are running well separated. This goes double: for the trophy seeker and the meat hunter. From mid-August to the last of September, a buck's horns are jet black, well formed, and lustrous. The meat is less stringy, slightly fat-streaked, and the muscles are softer, because in a normal summer he has had easier feeding. But the wise rifleman never anticipates getting his 'studio head' shot or his 'bragging dinner' kill at less than 250 yards.

In other words, that tantalizing little gamester of the great open spaces is well on the way to a real comeback. He has skirted around the shady valley of extinction to take his place once again as one of the principal game animals of North America. It's a wonderful satisfaction to know that next year—or maybe the year after—you can pick up that favorite old .30-30, that trusty .30-'06, the hard-hitting .270, or that dazzling new .257 and go a-hunting for antelope. And it's a dog-gone good feeling, too, to know you'll have at least a ten-to-one chance of seeing one . . . but I'll bet ten-to-one you don't get 'im.

♦ ♦ ♦

☆ ☆ ☆

To the Immortal Sorrow of the Enemy

To the Honorable Continental Congress — Philadelphia April 11th 1777

May it Please your Honors,

I would just informe this Honorable Assembly, that I have discovered an improvement, in the use of Small Armes, wherein a common small arm, may be maid to discharge eight balls one after another, in eight, five or three seconds of time, & each one to do execution five & twenty, or thirty yards, and after so discharg'd, to be loaded and fir'd with cartrage as [useal ?], which I am ready to prove by experimental proof, and can with eaquel ease fix them so as to discharge sixteen or twenty, in sixteen, ten or five seconds of time, which I have kept as yet a secret, thinking that in two or three Months we might have an armey thus equipt, which our enemy should know nothing of, till they should be maid to know it in the field, to their immortal sorrow—

And if you Gentlemen are desirous to enquire into this improvement, your Humble Servant, is ready to wait upon you at any time, or place, or he may be waited on at the Widow Fords, in Walnut Street, between second & third Street.

from Your most Obedient
Humble Servant
Joseph Belton

Papers of the Continental Congress,
I, No. 41, 123-4

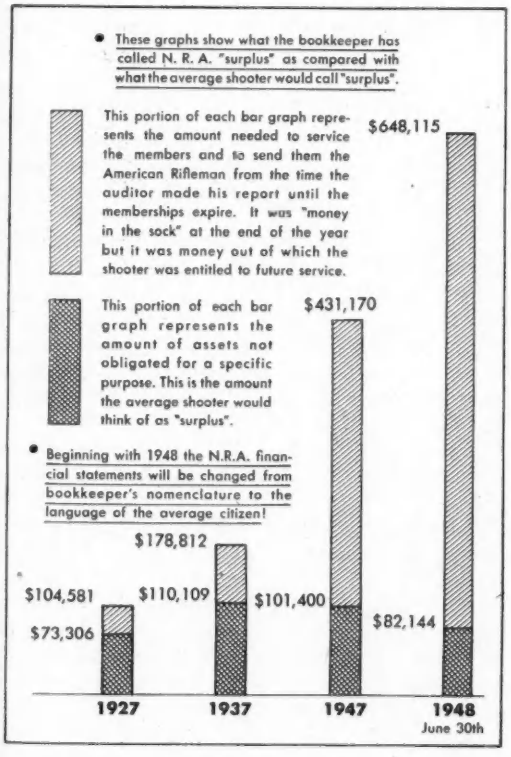
'SURPLUS'

THE AVERAGE AMERICAN ISN'T MUCH INTERESTED IN BOOKKEEPING. AS FAR AS HE'S CONCERNED, SURPLUS IS SOMETHING THAT ISN'T NEEDED. BUT DON'T TRY THAT DEFINITION ON A CERTIFIED PUBLIC ACCOUNTANT

The average American isn't much interested in bookkeeping. He is entirely at a loss when he tries to read the financial statement of a corporation. The nomenclature of the certified public accountant just doesn't jibe with the nomenclature of the average citizen—or shooter!

Take the word 'surplus,' for instance. To the ordinary mortal 'surplus' means something that isn't needed, something that can be given to Aunt Fannie whose husband died and left her with four children (the oldest six)! Not so to the auditor! 'Surplus' in a corporation's financial statement means everything the corporation owns minus what it owes. A shooter doesn't consider his house and furniture as 'surplus,' but to an auditor a corporation's 'house'—its buildings, office equipment, and machinery—are 'surplus' except for the portion not yet paid for. When a shooter gets a case of good ammunition to use in important matches and lays up a little money to buy a heavy-barreled speed lock (when available) he doesn't consider either the ammo or cash as 'surplus'. But all the office supplies and cash not *specifically* allocated are 'surplus' when an auditor draws up a corporation's financial statement!

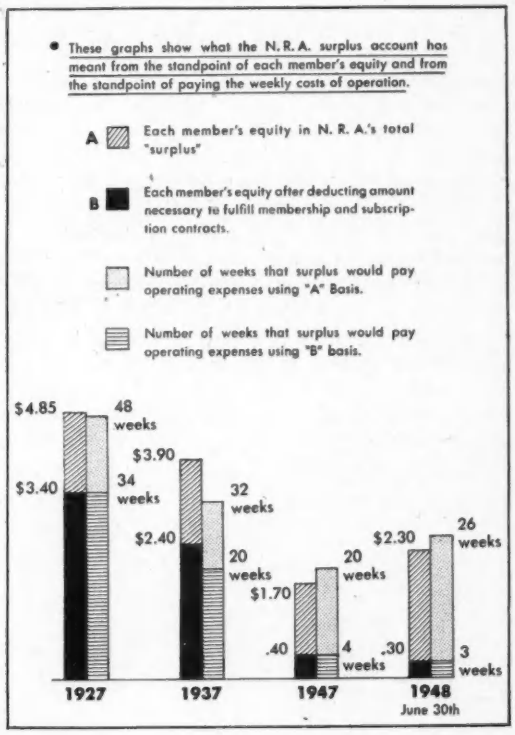
Now, let's take a look at the NRA's surplus account for the same years as were covered last month (page 27, August RIFLEMAN).


These graphs show what the bookkeeper has called N. R. A. "surplus" as compared with what the average shooter would call "surplus".
This portion of each bar graph represents the amount needed to service the members and to send them the American Rifleman from the time the auditor made his report until the memberships expire. It was "money in the sock" at the end of the year but it was money out of which the shooter was entitled to future service.
This portion of each bar graph represents the amount of assets not obligated for a specific purpose. This is the amount the average shooter would think of as "surplus".
Beginning with 1948 the N.R.A. financial statements will be changed from bookkeeper's nomenclature to the language of the average citizen!
$104,581
$73,306
$178,812
$110,109
$101,400
$431,170
$82,144
$648,115
1927
1937
1947
1948
June 30th

Here is the picture of NRA 'surplus,' not in the jargon of the accountant but in the language of the ordinary citizen.

Because the auditor's conception of surplus includes everything the corporation owns, minus what it owes, it is obvious that the surplus account must grow larger as the organization grows. The size of the surplus in *dollars* can be misleading unless it is related to the costs of remaining in business and to the number of people (members) who have money invested (membership) in the enterprise. The only reason for a surplus is to enable the corporation to keep its buildings and machinery up-to-date, to maintain and possibly expand its activities and to continue operating during those months or years when operating losses can be expected.

Now, let's take a look at the NRA's surplus account from the angles just mentioned.



Comparison of the above graphs shows that when the NRA's surplus was smallest in dollars it was largest from the standpoint of providing a comfortable operating reserve against weekly expenses. When the 'total surplus' was smallest in dollars the amount available above the requirement for unexpired memberships and subscriptions was within $9,000 of the amount available when 'total surplus' was the largest. And, as a final note, the charts show that when the 'total surplus' in dollars was one-sixth of its present size the surplus per member was more than double what it is today. During the same period the surplus per member not required to fulfill membership contracts has been reduced by increased costs of doing business from $3.40 to .30¢ per member.

We repeat—the nomenclature of the certified public accountant just doesn't jibe with the nomenclature of the average shooter! ♦ ♦ ♦

CONVENTION HIGHLIGHTS

HERE, FOR THE FIRST TIME, IS A COMPLETE SCHEDULE OF THE NRA'S FORTHCOMING ANNUAL MEMBERS' CONVENTION—WHAT YOU'LL BE DOING, WHAT CAN BE ACCOMPLISHED

PLANS FINALLY are completed for the National Rifle Association's big annual convention—the first real get-together ever staged for *all* kinds of shooters, regardless of which brand of powder burning they're interested in. Here, day-by-day, is the schedule—what you'll be doing while you're in Washington, and some of the things you should be thinking about in advance of the convention sessions.

MONDAY, OCTOBER 25

On opening day, first of all, there'll be a morning session designed to acquaint you with the inner workings of the NRA—how the organization is put together, how it functions, what it does. In short, the hows and whys of Headquarters. At mid-day, a leisurely get-acquainted luncheon for everybody to give you a chance to meet fellow delegates and NRA personnel.

On Monday afternoon you can attend the first of the discussion sessions, slanted toward solving the problems of senior club management and the junior club program. While they're going on, there will be a sightseeing tour for wives and families, and by late afternoon, a chance to wander through the main exhibition hall, where manufacturers and dealers will have set up displays of the newest in shooting equipment, and where many unusual technical exhibits have been prepared.

Monday evening offers something for everyone—a chance to sit in on a behind-the-scenes television show; 'open house' at NRA headquarters; a trip to the University of Maryland's fine indoor range; or one of three round-table discussions of club and NRA referee problems.

TUESDAY, OCTOBER 26

The second day of the convention will be given over mainly to discussion sessions, designed to give you a chance to air your views on every phase of the shooting game. Are you interested in the threat of anti-firearms legislation? Do you think rifle and pistol tournaments can be improved? Should the classification system be changed? What is the future of registered tournaments?

REMEMBER THOSE DATES: OCTOBER 25-28 . . . AT WASHINGTON'S HUGE SHOREHAM HOTEL

Highlighting Tuesday evening's session will be the annual members' meeting at which life members have the privilege of voting for NRA directors . . . and for the ladies, a fashion show and tea Tuesday afternoon.

WEDNESDAY, OCTOBER 27

Big feature of the third convention day will be the finals of the National Rifle and Pistol Championship, to be fired on the great Marine Corps Range at nearby Quantico, Virginia. There will be a chance to see the FBI school in action and to tour the Marine barracks at Quantico.

Other features for Wednesday include a general discussion session to plan for the future of rifle and pistol shooting in the light of world events and national policies. And there will be a chance to indicate your preference for the site of next year's annual convention.

On the social side, too, Wednesday will be *the* big day. There will be a luncheon for wives and families and the gala members' banquet with its big-name speakers from Washington's official and military population. The banquet also will be the scene of official recognition for the new rifle and pistol champions, at which time the coveted championship awards will be formally presented.

THURSDAY, OCTOBER 28

Did you ever wonder how the Army tests its arms and ammunition? There on Thursday you will have an unparalleled opportunity to see the inside of the Army's great Aberdeen Proving Ground where constant developmental work goes on as a part of America's preparedness program.

WHAT WOULD YOU ANSWER?

Here are some questions typical of those that will be asked and discussed in the general sessions and open forums of the first NRA Member's Convention and in 'bull-session' meetings all over the hotel. These questions are vital to you as a shooter and to your club. Will you be represented in the discussions? What will be your answer to our problems as a shooting organization?

1. What form shall future National Matches take?
2. What is the answer to the problem of locating, financing and operating local ranges? Must we turn to municipal and county ranges, to mergers of numerous small clubs into consolidated groups, to a combination of rifle, pistol, trap and skeet ranges at one site, or to ranges operated on a profit-making basis?
3. Are the NRA competitive committees—.30 caliber, small bore and pistol—properly representative of the shooters?
4. Is the Junior Rifle Program making satisfactory progress?
5. The financial support of millions of Americans who are not active in Red Cross work, in Boy Scout activities, or in fighting the spread of polio, cancer and heart disease make it possible for those who are actively interested to carry on their work. Should local rifle and pistol clubs and the NRA as a national organization make greater efforts to enroll inactive members in order to finance our activities?
6. Would a national handicapping system similar to that

used in golf, bowling, trapshooting, and other sports be better than the present classification system for rifle and pistol?

7. What can be done to undertake a nation-wide educational campaign regarding firearms legislation and to assume the offensive in pressing for the repeal of 'Sullivan Laws' and the adoption of a sane Uniform Firearms Act?

8. Have we built up a too-complex system of shooting and scoring rules? If so, what can be done to simplify them?

9. Are state legislatures tending to give too much law-*making* power to State Game Commissions, instead of limiting them to law *enforcement?*

10. How can local clubs better take advantage of the foundations laid by NRA Headquarters in the fields of newspaper publicity, radio and the program-hungry television industry?

11. Is the Junior Program properly integrated with the senior program?

Do too many active junior shooters drop out of the game instead of joining senior clubs?

12. Must local clubs begin to consider the wisdom of employing full-time club secretaries?

How can NRA service to shooters be improved?

Is the expense of maintaining field offices justified by results?

13. Are American shooters interested in Olympic and International Matches?

14. Are we doing all that we might be doing to help prepare America for defense in a 'lightning' war?

Do we, during peace times, tend to forget *instruction* and to concentrate on *competition?* How can we better combine the two?

15. Should we follow the lead of other sports and establish 'professional' and 'amateur' classes, with unlimited cash prizes for 'professional' or 'open' competition?

16. What are the legal advantages and disadvantages of incorporating a rifle or pistol club?

Convention Secretary
National Rifle Association
1600 Rhode Island Avenue, N. W.
Washington 6, D. C.

I am planning to attend our first national convention at the Shoreham Hotel in Washington, October 25-28.

I am indicating, by circling the respective numbers, those of the above questions that I am most concerned with and would most like to see given complete open discussion.

1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16

I would ☐ / would not ☐ like to have you make a reservation for me at the convention hotel with the understanding that the reservation may be cancelled if I am unable to attend.

There will be the following persons in my party in addition to myself.

.....

.....

.....

.....

My name and address is .....

.....

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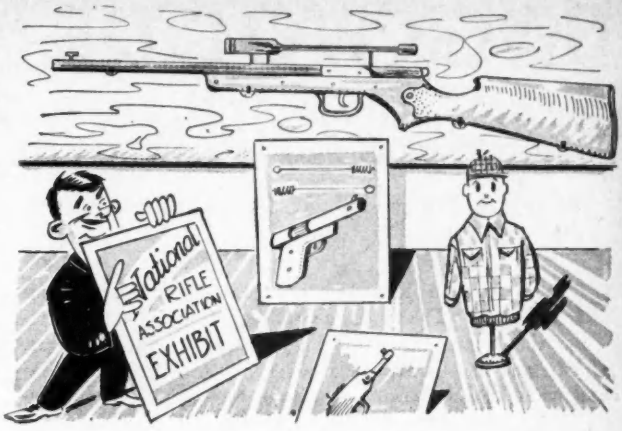
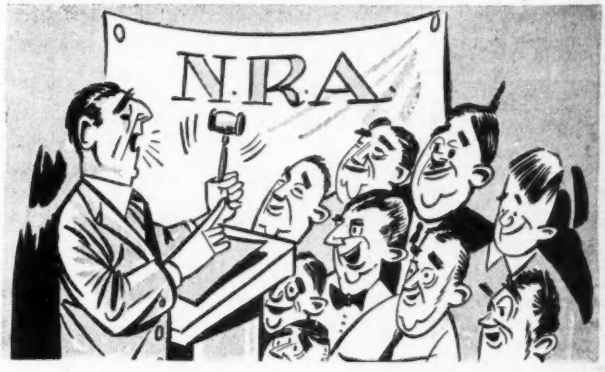




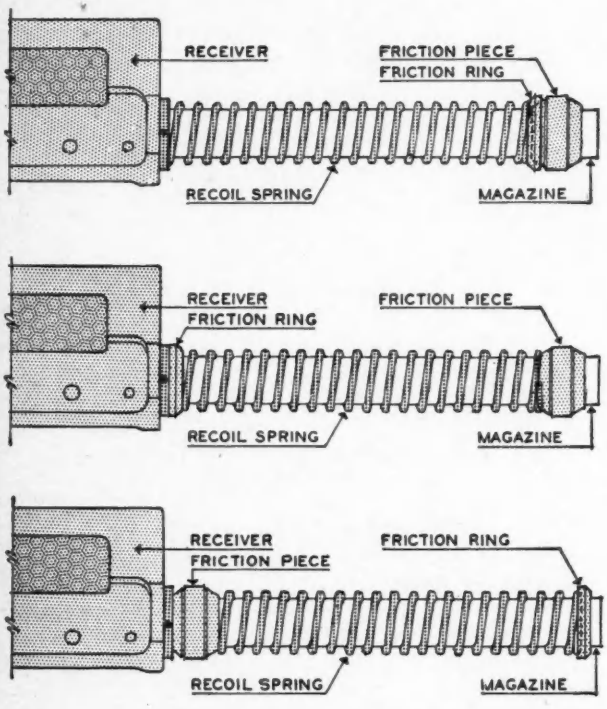
BACKWOODS GUNSMITHING

ANOTHER GRAB BAG OF HOW-TO-DO-IT KINKS FOR THE HOME WORKSHOPMAN

WITH A PIECE OF SCRAP STEEL AND A FILE . . . . BY HAROLD E. MacFARLAND

HAVE YOU EVER stopped to wonder why gunsmiths are all old men? The usual mental picture called up at mention of the term is that of an old fellow with white whiskers. I don't look like Santa Claus but a picture of me would reveal that I have snatched my hair out by handsful while solving some of the problems the trade poses.

To recount a recent instance: One of my Scandinavian neighbors came in a few days ago, carrying the parts of a double shotgun in both hands, and said, "Could you fix dis?



Friction rings must be placed in shotguns correctly or they may damage parts of receiver. These three arrangements of friction rings, friction pieces, and recoil springs will wear longest in your gun (above) when shooting heavy loads, (center) when shooting light loads, and (below) when using a Cutt's Compensator or a Weaver choke. Check your gun now

I saw a hawk so I vendt oudt to de shed und grabbed my shotgun und took a shot at him. Und dis is vat happened. Dere I stood, yust as cule as a coocumber, und my vife vas calling me but I couldn't hear her. I vas deaf for a veek." To enumerate a few of the things that had happened, the stock was knocked loose, the trigger guard torn off, the frame split down both sides, and six inches of the chamber section of the right barrel was laid out flat and curled forward to meet the rest of the barrel. A 20-gauge shell dropped in the chamber ahead of a 12 gauge will work about like this, but my friend hadn't had any 20-gauge shells, so we decided a mouse must have crawled in the barrel. The gun was Belgian and looked like a Damascus twist. However, close examination revealed that it was a fluid steel barrel and just embossed with an imitation Damascus finish. The Belgians used to do them that way in the days when Damascus barrels were a la mode—and that means 'in the fashion,' not 'with ice cream on top.' I haven't got that one fixed yet.

One is frequently in need of sight slot blanks when installing peep sights. Those which can be bought are crummy looking little wedges of metal so I usually make them. The old rear sight usually is made with a nicely shaped point on one end. Just cut a matching point from the sight arm on the other end, polish it, and give it a heat and oil blue. It makes a dandy.

The country is flooded with Jap military rifles and the average vet wants to shoot a deer with the gun he picked up on Okinawa or Pelelieu. Consequently I have been converting a lot of them. One of the big problems lies in suitable sights. A ramp on the front solves that portion of the trouble. Some want a Winchester-type open rear. The simplest way to mount it is to punch out the folding leaf pin and take off the sight leaf. Then remove the spring screw and drive the spring forward. The spring is shoved in on a longitudinal dovetail. A No. 22K Winchester open rear sight is the right height for these jobs. File the dovetail base of it to a tapering longitudinal dovetail instead of the lateral dovetail, using the spring for a pattern. Drive the sight in place, and let the sight face spring over the ears of the fixed sight base. This will keep it from coming out. If the customer wants a peep sight, I use the Redfield No. 70 intended for the Model 30 Remington. With a little converting, it works. Use a large round or a small half-round file to curve the fixed sight base to a shorter radius. Unless the front sight is to be unnecessarily high, it is better to slot the receiver bridge for the horizontal sight arm.

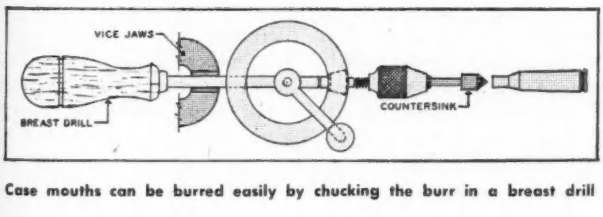
Nine out of ten automatic shotguns (Remington, Browning, and Savage) that I get in the shop have the friction rings in wrong. To shoot them in this condition with modern heavy loads is equivalent to driving into your garage full speed with no brakes on the car. In either case, you come to a sudden, battered stop. Surprisingly, they take it for a while. But I get guns in the shop with broken locking bolts, with the receivers split down the side, with broken upper tangs, with action spring tubes broken, and with the fiber buffer chawed into bits and clogging the action. If you are shooting heavy loads, there is only one right way to place these rings. Slip the recoil spring on the tube first. Then slip on the steel friction ring with bevel side (inside bevel or cupped side) up toward the barrel lug. Then place the brass friction piece on the tube.

If shooting light loads, place the steel friction ring on the tube first with the cupped side next to the receiver. The spring and friction piece follow as before.

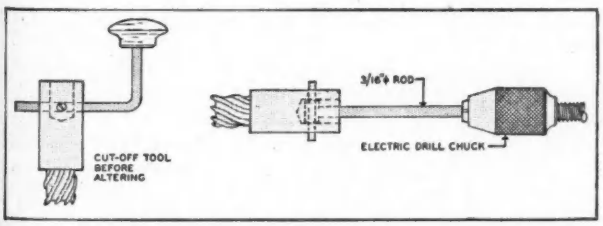
When using a Cutt's Compensator or a Weaver choke, the recoil is so light that still another setup is necessary. Place the brass friction piece on the tube first, then the spring, and lastly the steel friction ring with cupped side toward the

spring. These guns depend on the braking action of the brass friction piece gripping the magazine tube to slow down the rearward travel of the breechblock so it will just open the action fully. If anything happens to upset this precise amount of friction, they don't function. The magazine tube should have a faint film of oil on it. If it is too oily, the friction piece won't grip it. If it is dry or rusty, the brass grips too tightly and either the gun doesn't feed shells or the magazine tube is folded up.

In an unguarded moment, I recently conceived the brilliant idea of reforming a thousand 8 mm. Mauser cases from .30-'06 brass and selling them to some of my friends. Forthwith, I procured a set of Pacific dies and a cut-off tool. Everything started off fine. I dipped the shell necks in powdered graphite to lubricate the inside. Then I smeared a very light film of a grease called Lubmor on the outside. This is a white waxy grease filled with Lubmor powder. I don't know what it is but it looks like finely powdered mica and is guaranteed to be ten times as slick as graphite. When I use it on .30-'06 cases, I can resize them full length as easily as dry .38 Special cases. I got the cases reformed in nice shape. Then I stuck one in the cut-off die and started winding the wooden knob on the little crank. By bearing down and cranking, I got a case shortened in about fifteen minutes. One was enough. I decided I wouldn't live long enough to shorten a thousand of them in my spare time. In casting about the shop for an easier way, I came across an eight-inch section from the handle end of a Russian cleaning rod. This is a 3/16-inch drill rod with a small knob on the end, and has a 3/16-inch hole through the knob. The cut-off mill has a vertical 7/16-inch hole in it and a transverse ¼-inch hole. I dropped the knob of the cleaning rod section into the vertical hole and cross-pinned it with a 3/16-inch pin. This left everything floating free so that I had a universal joint action. Then I chucked the other end of the cleaning rod in my ¼-inch electric hand drill and went to work on the cases. One zip and they were down to the right length. In spite of liberal lubrication, the whole



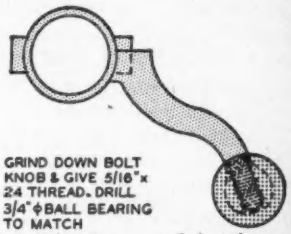
Case mouths can be burred easily by chucking the burr in a breast drill



Cut-off tools may be altered for use in electric drills by removing handle of cut-off tool and cross-pinning drill rod in vertical hole of the drill chuck

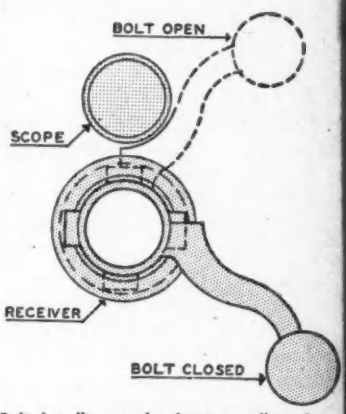
setup ran hot periodically so I would go ahead with one of the other steps while it cooled. The next step was to burr the case mouths. I clamped a breast drill vertically, upside down, in the vise. With a 60-degree countersunk chucked in the drill, burring was simple.

Old ball bearings are still handy things after they have outlived their original usefulness. I anneal them in batches so that they are ready for use when I need them. They are extremely hard, so careful annealing is necessary. Heat them cherry red and bury in powdered asbestos. After eight hours, they are still a little too hot to handle. Slow cooling does the trick. I like them for muzzle crowning balls. Drill and tap them and set in a two-inch 6 x 48 screw for a shank. The theory is wrong but it works anyway. A brass ball is customary because the grinding compound will bed itself into the softer of two metals bearing on each other and cut the harder one. But just the same, one job scores those brass balls until they are worthless. I get quite a few muzzles from a steel ball and I can't see anything wrong with them.



Old ball bearing, annealed and tapped for bolt handle that has been threaded, will make a substitute for a small bolt knob

In making a drill press vise, I tapped two of these balls and screwed them on the ends of a six-inch section of ⅜-inch drill rod for a handle. They make good bolt knobs if one is making a new low bolt handle for scope use. I have a Buffalo Newton in the shop right now which had just a wart on the end of the bolt handle where the knob ought to be. I ground the end of this handle down to 5/16-inch round cross section and gave it a 5/16 x 24 thread. Then I drilled and tapped a large ball to match, and screwed it on, polishing the handle afterward.



Bolt handle can be bent to allow low scope mounting by heating with acetylene torch. Sometimes a bending template must be used to make bend correctly

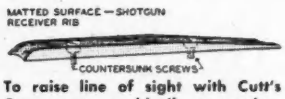
Bolt bending is frequently in order on military rifles. There is nothing to it if you are careful not to let the heat run in on the bolt body and ruin it. There is only one way to do it and that is with a large acetylene torch. Pack the inside of the bolt with wet rags or wet cotton waste. Grip the bolt in a smooth-jawed vise and heat it fast to cherry red, applying the flame on the outside of the bend where the metal has to stretch most—at the point where the bend is to be made. Don't allow the oxygen cone in the center of the flame to touch the steel or it will burn the carbon out. If the knob is to be flared outward, make the bend first. Then, as soon as the handle reaches red heat, smack the knob with a hammer. Immediately remove the bolt from the vise and submerge the bolt body in water. Allow the handle to cool slowly from this to avoid making it brittle. With the first bend made, clamp the bolt in the vise again and proceed to make the primary bend downward as before. If you work carefully and fast, the blue color will never reach the bolt body at all. If bending a bolt to allow low scope mounting, your limit of tolerance as to shape is pretty small. In this case, figure out the exact shape necessary and cut it from a piece of sheet metal, using a chisel. This will serve as a bending template.

It is quite often handy to have a vise that can be moved about freely. I anchored a vise to a bar of steel measuring 1½ x 6 x 12 inches, fastening it down with cap screws. This

made it heavy enough to stay put and yet I can move it about freely. It is especially useful for clamping a rifle for bore sighting when I am mounting a scope. Also, when welding small parts, I clamp one section of the broken part in the regular bench vise and the other part in the movable vise. I can slide it around until the broken parts align and then weld. Similarly, the usual drill press vise is so light in weight that it won't sit still while I drill, so I anchored it to another slab of steel.

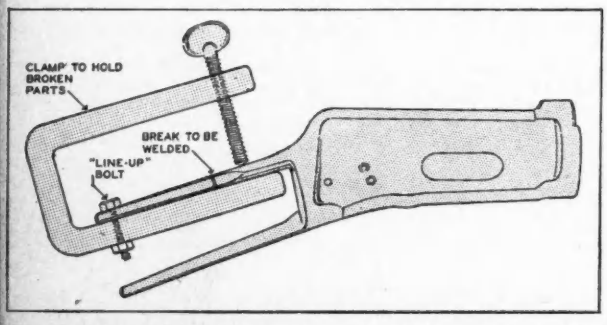
When inletting a gunstock, it is customary to use a mixture of lamp black and oil for spotting in. This doesn't work too badly, but it is nearly worthless if inletting new fittings in an old oil-stained stock. For jobs like this, I use an oil-soluble red dye mixed with sperm oil or lard oil. It shows up against any dark background. Bearing blue is worthless because it dries on the metal parts. The finest thing I have found for inletting is a methyl-violet dye paste. This is very similar to the dye used in Hektograph duplicating work. It is nondrying and can be left on the work from day to day. As it must do successful duplicating work, the faintest film of it will give a clearly defined impression.

This special heavy ink is intended for Hektograph or Ditto work. It is for sale by stationery stores and school supply houses. I apply it with a toothbrush because it is messy stuff. The use of Du Pont Pro-Tek, a water soluble emulsified lacquer, will prevent staining the hands. Apply a film of Pro-Tek to the hands, especially around the nails, before using the dye. Afterwards, the dye will wash off readily.



To raise line of sight with Cutt's Compensator, add rib on receiver

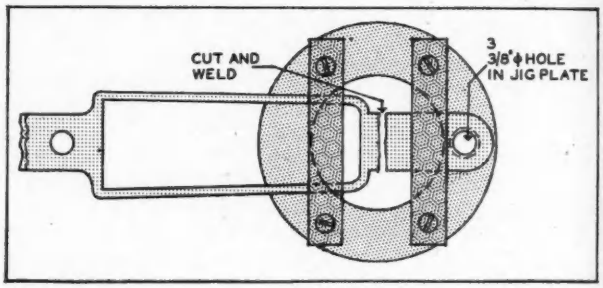
I encounter many '94 Winchesters with the receiver tangs broken off from clubbing wounded deer. This might be forgiven in the excitable tenderfoot first-timer. Too often though, it is some of the old timers of the community who bring them in. I'm not saying but I have a suspicion that they break them while poaching, when they don't want the noise of a second shot. I clamp them solidly in a jig made for the purpose, then scarf out deeply with a mounted stone in the electric drill. An arc welder is best for this job because the heat from it is localized. Flow the joint full with a stainless steel rod (stainless is much tougher and stronger than any other welding rod). This fixes the joint but you now have a spot you can't reblue. So, grind the stainless weld to a depth of about 1/16 inch and fill the groove with mild steel welding rod. When it is polished and blued, you won't find the joint.



Clamp with line-up bolt will hold broken receiver tang in place for welding

A Cutt's Compensator is a handy gadget and the fellows who mount them on automatic shotguns with high front sights get along fine. Every once in a while though, some shooter mounts one on a pump shotgun and then wonders why he can't hit anything. It doesn't seem to occur to him that the front sight has been raised considerably. The answer lies in fitting a small rib to the receiver top to bring the line of sight up where it belongs. Fasten the rib on with a couple of countersunk screws.

One of the handiest tools around the shop is a sanding wheel. Factory-made ones aren't readily available now but it isn't hard to make your own. Occasionally one sees them made of wood, but such a wheel can be dangerous unless the



Surplus metal can be cut from Enfield trigger guard and pieces welded

wood is laminated with the grain crossed. Wood tends to split and the centrifugal force of the fast-spinning wheel will throw the fragments like bullets.

I favor the use of a pressed wood-fiber board such as the softer grades of Masonite. This can be secured in one-quarter inch thickness. I glue eight thicknesses of it together and clamp until dry. Drill a center hole for the shaft upon which the wheel will be mounted. Then scribe the outside circumference and saw it out slightly oversize. A bandsaw is ideal for this work but one can use a coping or a keyhole saw. Make the wheel about six inches in diameter. Then clamp it between bosses on the meter arbor or the end of the grinder shaft where it will be used and start it spinning.

Set up a steady makeshift rest close to the wheel and pass the edge of a wood chisel along the spinning rim. With a few passes, it will be turned as true as it could be on a lathe. To anchor the abrasive cloth on the wheel, cut a V into the edge of the wheel, approximately five-eighths inch wide and five-eighths inch deep. Make a fiber or aluminum wedge to fit loosely in this slot, and drill and countersink the center of it for a two-inch wood screw. This screw will draw the wedge into place and hold it when the edges of the abrasive cloth are tucked under.

Glue a felt covering around the edge of the wheel and it is ready for the abrasive. Abrasive is bought in rolls, two inches wide. I favor emery cloth of 120 grit, which is a good average grit for general work. Tuck the edges of the cloth under the wedge and tighten it securely. If it isn't secured solidly, centrifugal force will snap the cloth off with a sound like a shot. It may not hurt you but it will scare you half to death. The wheel must be carefully balanced or vibration will be excessive. If the weight of the wedge and wood screw make it a bit heavy on one side, sink wood screws in the opposite side until it is balanced.

In straightening Enfield guards, saw off the pot-bellied front extension and cut off surplus metal. Then fasten the two parts of the guard to the receiver with the stock screws, sinking them to the usual depth. Clamp a jig on the sawed ends and you will have them spaced with the screw holes the right distance apart. Remove the setup from the gun and weld. A mild steel rod is good enough because no exceptional strength is required. ◆ ◆ ◆

Telescope Alterations

Part II: CHANGING THE EYE LENS

By GEORGE R. PARIZEK

MODIFICATIONS OF telescope sights may be made by other means than that described in Part I of this article.

One method of alteration that is particularly interesting is change of scope magnification by manipulation of the eye lens. It is probably the least critical of all scope lenses and usually is contained in a separable cell. Long, high-power, short eye-relief scopes are not adapted to the eye lens method of change as eye relief will be shortened unduly.

On the other hand, low-power, long eye-relief scopes are admirably adapted to this modification as these devices usually have excessive light transmission which is associated with long-focus eye lenses. Experiments with this type of alteration can easily be undertaken at home with little danger of damaging the scope. Generally, a magnification change of more than two times should not be attempted as the eye relief may become too short. A gain of approximately twice is very easily obtained and might be an interesting proposition for a combined hunting and target scope when used with normal and altered eye piece respectively. Scope adjustments should not change with change of lens, and quite likely the shorter eye relief would not be too inconvenient for incidental target work.

The illustration shows a typical low-power scope with both normal and shortened eye piece. The solid lines depict the original path of one ray of light. The dotted lines depict the path taken by the same ray when the modified eye lens is in place.

It can be seen that the functions illustrated are nearly a parallel to changing of the objective as described in Part I. Fundamentally the scope magnification is still $D_1/D_2 \times D_3/D_4$. Instead of increasing the objective focal length (D_1), the original focal length (D_4) is decreased to perform the magnification change.

Alteration to the eye lens is accomplished in a particularly easy manner if a change of about 2X is desired. It is only necessary to mount another eye lens of exactly the same characteristics very close to the original lens to nearly halve the original focal length (D_4). Any two convex lenses, when mounted quite close together, will focus at a point closer to the lenses than with either lens alone. If the lenses are identical, and as close together as possible, they will almost halve the focal length of any one lens alone. Thus, by purchasing another eye lens, the glass problem is solved. Many times, the eye piece will allow for the shorter length (D_4) required. If not, tube cutting must be resorted to, and a new eye-lens cell may be required. However, the accuracy of mechanical work is not critical as compared to objective lens changes. Another worthwhile feature that can be obtained with this construction is reduction of eye lens reflections. If the flat surfaces of the two lenses are turned as illustrated, reflections on the eye lens are greatly reduced. Some scopes are very good in this respect, while others can well be improved upon. The experimenter can judge this only for himself.

Scope changes, as described, will cause different conditions than those described for objective alterations in Part I. Assuming that the eye lens focal length has been made one-half and the diameter retained at original size, the following will hold:

Magnification—Magnification change is dependent on lens focal-length change. In this case, the magnification has been increased twice.

Light transmission—The alteration shown will always reduce light transmission in inverse proportion to magnification change if the objective is unaltered. The modification illustrated will reduce transmission to one-half the original amount.

Resolution—This function was thoroughly described in Part I of this article. As the objective was not altered, any betterment of resolution will depend on the ability of the eye lens to determine more detail in the image. If all original lenses were of good quality, resolution can be expected to increase proportionately with magnification. This probably cannot be fully attained but a fair gain should be expected. With the construction shown a resolution gain of about two times can be expected.

Most of the precautions concerning lens quality given in Part I can be ignored as the eye lens is not as exacting in its requirements. An inexpensive single lens is quite suitable. However, the small focal-length lenses required are not expensive as doublets and give better performance.

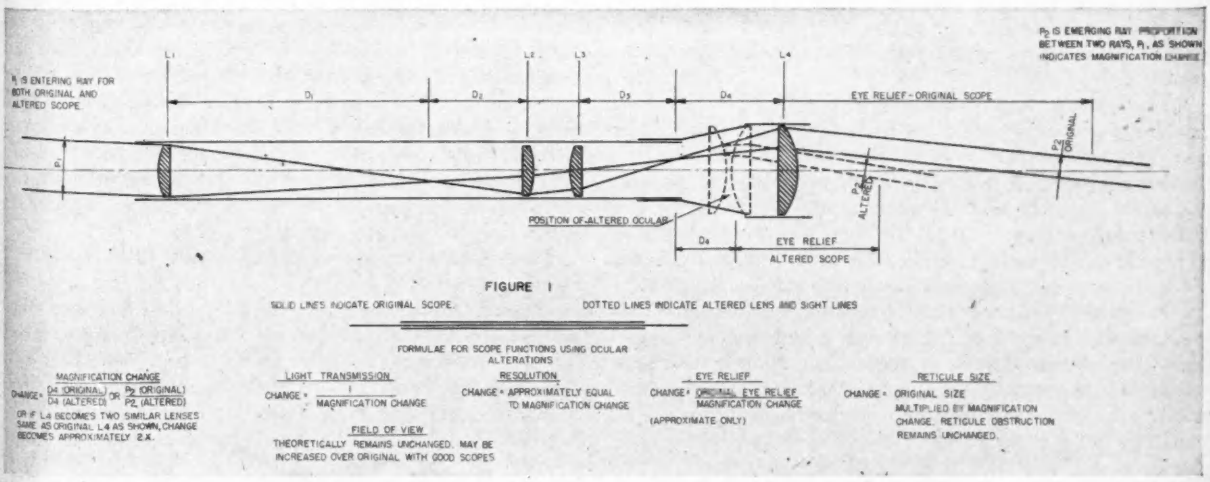


FIGURE 1

SOLID LINES INDICATE ORIGINAL SCOPE. DOTTED LINES INDICATE ALTERED LENS AND SIGHT LINES

FORMULAE FOR SCOPE FUNCTIONS USING OCULAR ALTERATIONS

MAGNIFICATION CHANGE
CHANGE = D4 (ORIGINAL) / D4 (ALTERED) OR P2 (ORIGINAL) / P2 (ALTERED)
OR IF L4 BECOMES TWO SIMILAR LENSES SAME AS ORIGINAL L4 AS SHOWN, CHANGE BECOMES APPROXIMATELY 2X.

LIGHT TRANSMISSION
CHANGE = 1 / MAGNIFICATION CHANGE

FIELD OF VIEW
THEORETICALLY REMAINS UNCHANGED. MAY BE INCREASED OVER ORIGINAL WITH GOOD SCOPES

RESOLUTION
CHANGE = APPROXIMATELY EQUAL TO MAGNIFICATION CHANGE

EYE RELIEF
CHANGE = ORIGINAL EYE RELIEF / MAGNIFICATION CHANGE
(APPROXIMATE ONLY)

RETICULE SIZE
CHANGE = ORIGINAL SIZE MULTIPLIED BY MAGNIFICATION CHANGE. RETICULE OBSTRUCTION REMAINS UNCHANGED.

Use of the original lens, together with a duplicate as described, will retain all of the original corrections designed into the scope, and may actually improve them slightly.

Eye relief—Changes in the eye lens will affect eye relief greatly. Eye relief is dependent on ocular focal length (D_4) and clear lens diameter. With constant diameter, the relief will vary almost directly with focal length. With the construction described, the eye relief will be approximately one-half the original amount. The lowered light transmission resulting from the change will assist in this respect. If the original scope passes all possible light to the rear lens, then the new combination may not appear to be fully illuminated. If the original rays were not obstructed except near the eye piece, the new construction may become more fully illuminated and the eye relief extended slightly. However, if the scope restricts light severely ahead of the eye piece, nothing can be done to improve this condition. With so many differing constructions, it is impossible to predict the eye relief exactly.

Size of reticule—The reticule lies in the plane of an image formed within the scope. This image, with the reticule imposed thereon, is 'seen' by the eye lens. The size of field and reticule is dependent on the magnifying power of the lenses between it and the eye. As both image and reticule are magnified alike, both become larger by the amount of the magnification increase. By the same reasoning, the obstruction caused by the reticule remains unchanged as the magnification increases.

The construction illustrated increases the size of the reticule twice but the obstruction presented to the field remains the same as in the original scope.

Field of view—The field of view can be ascertained from either the entering ray (P_1) or the exit ray (P_2). It can be noted from the illustration that the entering ray is the same for both the original and altered scope. This being the case, the field of view can be expected to remain unchanged. It is possible to increase the field by use of a larger diameter eye lens if the light can be transmitted through the scope at greater angles. It is quite probable that the average good quality scope will pass light at a greater angle when altered on the eye end and will, in turn, allow a slightly greater field to be seen at a slightly longer eye point than mentioned here.

Conclusion—The features described for eye lens modification include the possibilities of moderate magnification and resolution increase with retention of the original field. The penalties paid are loss of light transmission and shortening of eye relief.

The loss of light transmission is not too serious. Ocular lens changes are adaptable mainly to long eye-relief scopes which have usual transmission values between twenty-five and sixty-four. Cutting these values in half will, at the low end, still pass as much light as a good target scope, and at the high end pass more light than actually needed.

The eye relief may be more of a problem, yet the longer ocular cell provided will assist in placing the eye lens in a reasonable position. Most scopes can be adjusted in their mounts without conflict with gun appurtenances. However a little neck stretching may serve the same purpose.

The author has used this construction on several small scopes with good success. It would be of interest to see what might be developed commercially in an ocular attachment that could be slipped on the original lens cell. By having such a device one could have 'two' scopes on one rifle, necessitating only the lens attachment and refocusing on the crosshairs to make ready to shoot. Sighting and adjustment would remain constant between alterations. Thus, both short- and medium-range scopes could be provided in a handy manner. ♦ ♦ ♦

In the concluding installment of this study, the author will discuss alterations of scope sights by changes of the interior lenses and their dimensions.—ED.

☆ ☆ ☆

DCM REPORT

Continued progress is being made by the DCM in cleaning up the backlog of NRA members' purchase requests. By the time this issue is delivered, all rifle orders received during December, 1947, will have been processed, leaving only the orders for items other than rifles to be filled. This latter group of purchase requests, received since January 1, 1948, comprises orders for spare parts, ammunition components, etc. These will be processed in the order received beginning about September 1.

Members who have ordered from the DCM should bear in mind that that office acts as a 'clearing house' only. The processing of an order by the DCM means that the member's request has been approved and referred to one or more arsenals for attention. The arsenals then acknowledge the order and request payment by certified check or money order so that shipment can be made. While most of the arsenals can and do keep this work right up-to-date, unavoidable delays occur at times due to a deluge of orders sent to a particular arsenal.

Naturally, in the handling of such a large volume of purchase requests, inventories at the various arsenals constantly change and occasionally some items of material become temporarily exhausted. For instance, when components were made available last fall, there was an abnormal demand for .30 caliber cases and bullets. The supply of these components is now exhausted. An effort is being made to provide additional bullets and cases for sale. If we are successful in getting more bullets and cases the requests now on hand will then be processed. Meantime, the DCM can accept no more.

A review of the backlog of orders received since the first of this year indicates a misunderstanding on the part of some members regarding the DCM's policy applying to sales. Rifles (when available) are limited one of each type to NRA members who have not purchased the same type rifle since 1945. Spare parts are also limited. A member may buy only one barrel or receiver and a limit of two of any other rifle part necessary to keep his gun in repair. Requests to purchase more than these limits will be processed for the authorized quantities only and reorders for the same parts, if subsequently received, must be returned. As previously announced, all rifle sales were suspended as of January 1, 1948, and no more purchase requests for military rifles can be accepted until all DCM orders now on hand are processed.

These DCM reports appearing in the RIFLEMAN each month are intended to serve a dual purpose: 1) report the progress being made in processing back orders and thus eliminate unnecessary correspondence on the part of members awaiting acknowledgment of their DCM orders; and 2) clarify the policy and regulations pertaining to sales for the guidance of members who have not previously ordered from the DCM.

Be sure to read the DCM report each month to keep abreast of new developments! ♦ ♦ ♦

A new one for collectors:

The Chicopee Falls Rifle

By W. G. C. KIMBALL

THE ODD FLINTLOCK military rifle pictured at the bottom of the page, which came to light a few months ago, is made somewhat on the lines of the Model 1917 Enfield rifle but shows a little finer workmanship. It is signed by a company apparently unknown to the authors of books on American arms makers. The rifle is a military type with a .54 caliber, thirty-six-inch barrel rifled with seven grooves. It has a back-action flintlock and is marked with the signature 'Chicopee Falls Mfg. Co.' On the barrel of the rifle near the breech is the Government Inspector's initials 'N W P' for N. W. Patch who was sent out by the Springfield Armory to inspect contract arms between 1839 and 1848.

We do not know how many of these rifles were made, perhaps only a few sample pieces, as the company was only active for five years. But since the company was the start of the arms business in the locality of Chicopee Falls, Mass., its history and that of the Ames, the Massachusetts Arms, and later the Stevens Arms Company all stemmed from the Chicopee arms firm. The following is the history of these Massachusetts companies:

Early in Chicopee's industrial history, the practice of investing in companies managed by others arose. Certain men became accustomed to buy shares in a local enterprise and delegate the management of it to one of their own members. The first of these was the Chicopee Falls Company, organized in 1836, with an authorized capital of $25,000, for the purpose of manufacturing hardware and firearms.

In 1839 the capital authorization was raised to $100,000. The president of the company was T. W. Carter, who at the time was agent of the Chicopee Manufacturing Company. Others interested were David M. Bryant, first merchant in Chicopee Falls and Carter's partner; John Chase, manager of the Springfield Canal Company; T. W. Buckland; and Benjamin Belcher. N. P. Ames, of the Ames Manufacturing Company, was also an investor.

Thus, capital was drawn from mercantile and metal manufacturing profits, and from managerial earnings. There is no information available as to the progress of the company or how much money was actually invested. At the beginning of 1841, the company was forced out of business, advertising for sale all its property—land, power site, machine tools and shops, guns, saws, and a few tenements. The company was reported to have been in difficulties the previous year, its misfortunes being ascribed in part to inefficiency and bad management. The entire property was bought by the Ames Manufacturing Company.

The Ames Company was set up in Chicopee Falls in 1829 to manufacture cutlery and hardware. By 1831 the company was selling swords to the U. S. Government. By 1836 the plant employed thirty-five men and in that year was moved to Cabotsville. By 1841 N. P. Ames was considered an ordnance expert, and went abroad to study foreign methods of ordnance manufacture. His influence and reputation was strong in Washington.

Business in 1840 was bad and the Ames Manufacturing Company, together with the textile interests who were backing Ames, was looking for new business. It was felt that Government work offered a possibility, and the purchase of the Chicopee Falls Company was effected to make such contractual work possible on an expanded scope. Ames expanded its capital to $75,000 in order to buy Chicopee.

By 1845 there were 130 men employed by Ames in the manufacture of swords and cutlery, machinery, firearms, cannon, and various bronze and brass castings. The total output amounted to $132,000.

After 1845 the Mexican War brought prosperity in increasing measure, and Government arms contracts were large. By 1849, however, Ames had decided, for reasons not apparent, to confine efforts to Cabotsville, and to dispose of the old Chicopee Falls Company property in Chicopee Falls. In 1849 this branch of the business—consisting of the old shop and business of the Chicopee Falls Company—was sold to the Massachusetts Arms Company.

The Massachusetts Arms Company appears to have consisted of some of the original Chicopee Falls Company investors, who in 1849 decided to have another try at the arms business. They repurchased the shop from the Ames Manufacturing Company in 1849 and men were put to work making pistols under the direction of T. W. Carter. The Company was incorporated as the Massachusetts Arms Company with a capitalization of $70,000 for the purpose of manufacturing firearms, sewing machines, and other machinery.

In addition to Carter, J. T. Ames, John Chase, T. Warner, Chester W. Chapin, and R. A. Chapman invested in the Company. Warner was a Springfield man and an experienced millwright. He worked in the Springfield Armory and was a master armorer by 1842. He managed the Whitneyville Firearms Works for a time and then came to Chicopee Falls to start work with the Massachusetts Arms Company. Another gunmaker who came to Chicopee Falls in 1849 to work in the new company was J. Stevens, who had manufactured Colt's guns in Hartford. A gun of Stevens' invention was later made by the Massachusetts Arms Company.

The new company was soon employing sixty to seventy men, and was doing an excellent business when Colt sued for patent infringement. Colt won his *(Continued on page 48)*

This recently discovered .54 caliber rifle is marked with the name of the Chicopee Falls Mfg. Co., a company apparently unknown to arms collectors

THE M1 ON THE RANGE

(Continued from page 15)

and another trial should be made; and so on, until just the right tension is produced.

The recoil shoulders in the stock must bear evenly against the corresponding parts of the receiver on both sides. These recoil shoulders are the vertical wooden surfaces inside the stock just behind the magazine well. The metal walls hanging down under the receiver on each side bear against these wooden surfaces, or recoil shoulders, and thus transmit the recoil of the barrel and receiver to the stock.

The comparative degree of bearing can be judged by the amount the metal has indented the wooden surface. If one side has been bearing more heavily than the other, that side should be relieved slightly, or the other side should be shimmed up to equalize the bearing in order to avoid off-center stresses.

The adoption of the Garand was no sudden idea. The Army experimented for more than 30 years before finally accepting the M1. These 'primitive' semiautomatics are John Garand's models of 1920 (above) and 1921

Another place on the stock that often needs relieving is the bevelled cut-away portion at the top of the inside right-hand wall of the stock, forward of the receiver, where clearance is provided for the operating rod. Any spring of the rod during firing will make it bow out and strike the stock at this point. As this blow is delivered just as the bullet is leaving the muzzle, it can be detrimental to accuracy. If there are any signs of the operating rod striking the stock at this point, the wood should be cut away enough to prevent it.

The trough in which the operating rod rides in the stock should be examined along the bottom and sides for evidence of rubbing by the operating rod, and where such signs exist, the wood should be relieved.

The inside of the forward extension of the stock ferrule should be similarly examined and filed out, if necessary, to prevent any contact by the operating rod.

Operating rod: Except where the piston necessarily bears against the gas cylinder, the operating rod should not touch any other part of the gun in its movement to the rear. Because it is offset, the rod tends to bow or spring to the right when it is under thrust. Moreover, the pull of a tight sling tends to draw the stock to the left, away from the rod. For these reasons, it is preferable for the rod, when at rest, to be closer to the left side of the stock; hence, when selecting rifles for the matches, the Marines choose rods that tend to lie to the left of center.

Lower band: For best accuracy, the lower band should be a tight fit on the barrel and should be rigid and have no play or motion. If it can be moved, it should be tightened by the use of an oversize pin in order to remove all looseness.

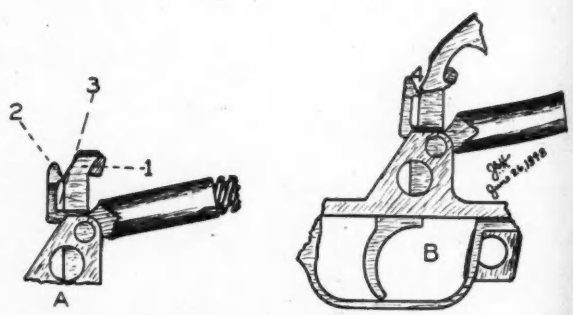
Gas cylinder: The rear loop of the gas cylinder should not bind or be a tight fit on the barrel. It should be possible to pass a slip of paper between the barrel and the loop at any point. If the rear loop of the gas cylinder bears on the barrel on one side, the rear surface of the gas cylinder lock may not be even. If it is high on one side, it may push the gas cylinder over and cause the rear loop to bear on that side. If such a high spot exists, it should be removed; and in any event, the rear loop of the gas cylinder should be made a free fit. The gas cylinder should be a good snug fit at the front end. If it shows any sign of looseness, it may be tightened by peening the lugs. However, this must not be overdone; otherwise a constriction may form on the inside of the barrel at this point.

Trigger pull: Like most other military rifles, the M1 has what is called a "double pull"; when pressure is first applied to the trigger, there is a fairly long, easy take-up, at the end of which definite resistance is encountered, which marks the beginning of the second or final pull.

For best results on the target range, the first pull should not be excessively long, and the second, or final, pull should be short, crisp, and free from any of the irregular grating motion known as creep. The weight of the final pull can be reduced to 4½ pounds without danger of malfunctions.

In the M1 rifle, the first pull begins when the upper arm of the trigger starts to swing forward, and ends when the top lug of the sear comes in contact with the two rear hooks of the hammer, thus adding a further resistance to the movement of the trigger. The later this contact occurs, the shorter, crisper, and lighter the second pull will be.

A poor or heavy trigger pull in the M1 rifle can be corrected by slight modifications on the hammer, trigger, and sear. Such work is best left to those who have had experience in this operation, as the hammer, trigger, and sear are quite likely to be spoiled the first few times it is attempted.



Skilled grinding of the trigger-release mechanism is required to lighten and smooth the Garand trigger pull. Complete method is described in text

Here is a brief description of the method of correcting trigger pulls that is used by the Marine armorers.

First the bottom, or hook, face on the trigger lugs is cut back about .036 to .038 inch, maintaining the original angle

(figure A, 1). Second, the front face on the upper lug of the sear is sloped back slightly (figure A, 2).

Third, a small amount is ground off the back surface of the upper arm of the trigger, where the sear rests against it (figure A, 3). This allows the sear to swing further forward. (Care must be used not to grind away too much. Otherwise the sear will not let the hammer swing by when the trigger is released, and the gun cannot be fired.)

Fourth, the length and weight of the final pull is adjusted by grinding away the tips of the rear hooks of the hammer where they make contact with the face of the sear as the sear swings forward when the trigger is pulled (figure B, 4).

If, when this is done, there still remains some roughness or creep in the final pull, it can be removed by stoning the hammer hooks carefully with a small triangular Arkansas oil stone.

Results obtained: A good idea of the effectiveness of this Marine Corps procedure for improving the accuracy of the M1 rifle can be obtained by a concrete example. In the Spring of 1948 the Ordnance Department was making a study of methods of improving the accuracy of M1 rifles for use in the National Matches. US rifle, caliber .30 M1, serial number 3,595,949, was fired for group with 1939 Frankford Arsenal M1 ammunition. The 10-shot group gave an extreme spread of 14 inches at 200 yards.

On June 8, 1948, this rifle was taken to Quantico by a party of Ordnance officers and engineers, and Master Sergeant McKinney worked over the rifle while the group watched. The rifle was then fired by two members of the party, and each one obtained 10-shot groups at 200 yards which gave an extreme spread of 6¾ inches, or less than half the previous group size. That represents real improvement.

At the time of this writing (June, 1948) the subject of M1 accuracy and how to improve it is under active study by the Ordnance Department, and it is reasonable to hope that even greater progress will be made in the near future.

Any future match shooters who are inclined to mourn at the passing of the M1903 should read Lieutenant Colonel John B. George's splendid book, *Shots Fired in Anger.* Speaking of the Springfield, Colonel George says:

"As a basic Infantry weapon, the M1903 rifle had a minor role in our army in this last war. We armed the troops of other nations with it, and the Marines, skeptical of the M1, used it in the early part of the war, including, I think, the whole of the Guadalcanal fight, but they were quick to get rid of it afterward. . . .

"Accuracy—the last edge you could get at long range with the M1903—was of absolutely no value in 99 percent of our fights. Most men could shoot the M1 better anyway. All with whom I talked complained bitterly about the poor combat sights on the '03. And in the matter of malfunctioning, I am not so sure that the M1903 was not much less reliable than the M1. . . .

"I'm a little glad to have seen the M1 used in battle and to have used it myself. I know it's a good gun. And when the groans of disgust echo along the firing line at the next national rifle matches, I'll try to make sure mine are for the usual reasons—a trey or a deuce in the wind, and *not* because I am fed up with shooting a lead squirter instead of the precise old National Match Springfield!" ♦ ♦ ♦

"Book of the Garand" by Julian S. Hatcher. Available October 1st through NRA Book Service. $6.00.

☆ ☆ ☆

DOVES ARE TRICKY TARGETS

(Continued from page 30)

coming unannounced over his back at sixty to seventy miles per hour will be out of range in two seconds. Remember these doves have been shot at in the fields and they're coming in a bit jumpily, with flaps up as it were. As for the dense, low tree—it has already caused him to let a quick, silent pair pass without a shot because he couldn't see them. Now watch. He sees a lone dove coming in a long way off. He's following it, but now that it's in range, the angle has changed and the tree blocks his line of sight. He has to step out quickly and take it as it's going away. He's learned his lesson, picks a better tree and stands inconspicuously against the trunk.

By mid-morning most of the doves have watered and like many Southerners, are ready for mid-day siesta. If undisturbed, they will light in trees near a field or waterhole. A scattering go out into pastureland. Here again your beginner can shoot at sitting birds if he wishes. But it takes sharp hunting to sight doves in mesquite or live oak thickets before they see you. If you've lots of stamina, don't mind heat, and love to walk, you can get some mighty sporty shooting here, because it's shoot quick or your game has a tree between you and him. Doves are devilish clever. You'll do well if you go slowly (with eyes and ears open), shoot quickly, and anticipate the swooping dive with which most birds leave a tree. If you don't lead under them, you'll overshoot almost invariably.

The mid-day siesta lasts until two or three o'clock in the afternoon, when the doves again begin to fly to feed. They water again before sundown and most of them are at roost by sundown unless they have been heavily shot at over the waterholes. This keeps them stirred up and they will not water until later, sometimes even after dark. But shooting is over at sunset.

As to equipment—in the Southwest it's coolness that counts. Probably the best clothing, if you're out for a day in field and pasture, as well as waterhole, is a GI fatigue suit. It's tough, loose, unobtrusive in color, with big pockets that will hold game as well as plenty of ammunition. If your tastes are more sedentary, you can drive to a waterhole with little comforts such as a camp stool or thermos. And if your hide is less tough than that of a rhinoceros, some insect repellant helps, because all waterholes are insect-ridden.

Oh—a final note for the chefs among you. Season dressed bird with salt, pepper, paprika, poultry seasoning, and dried parsley. Wrap in a strip of bacon and affix with a toothpick. Broil in oven at about 400 degrees for twenty minutes, turning from time to time.

A prince's sport, a king's meal—what better proof is there of the blessings of democracy? ♦ ♦ ♦

FITTING THE SCATTERGUN

A THOUGHT-PROVOKING SHORT-SHORT STORY FOR THE SCATTER-GUNNER WHO MISSES 'EM EVERY NOW AND THEN . . . . BY WALTER L. RICE

I HAD BOUGHT the close-shooting, modified- and full-choked 20-bore at a time when I felt I was killing more quail than I should, too easily, with an open-bored 12.

Perhaps I had been too optimistic after a day of unusually good luck with the 12-gauge. But at any rate, correction of the ability noted had been immediate. With the little 20-gauge and the seven-eighths ounce load I had to work like fury for many hours for the three or four quail that satisfied our dinner demands. However, I felt that I was preserving my sport and enjoying it at the same time. And that it was not necessary for me to quit hunting altogether when quail were scarce —a procedure most often followed by our hunters, but one that never did appeal to me.

There was but one fault to find. The birds I did get were seldom killed dead in air. More often than not they were scratched down with a broken wing by the edge of the small-bore's pattern. That I did not like.

It was not that I left crippled birds in my wake. For my dogs were hunted frequently enough to keep their noses in splendid function. They found and delivered to hand, with minimum loss of time, the fast-scuttling, wing-tipped birds. But I was not satisfied with such a performance. I craved clean hits or clean misses.

One day I picked up a .410 double. "Just the thing for me to cut down noise and expense with, shooting clay pigeons on my back lot," I confessed to an alert salesman, "and it will take the place of the pistol my better half keeps requesting for home defense. I'll be killing two birds with one stone."

The little gun felt 'right' in my hands. I was certain I could hit with it from the start. And I was not mistaken. The way I broke clay pigeons thrown by a practice trap with that toy gun seemed near miraculous. It set me to thinking, for it is not always I can shoot any gun I pick up. They have to fit like a glove.

One day I compared the seeming toy with my 20. To my surprise it seemed to have exactly the same dimensions throughout. That raised a question. Why am I so efficient with the .410 and only hit with the edge of the 20's pattern?

"My pointer delivers a bobwhite I centered with that small shot pattern after experimentation made the little gun fit me near to perfection"

I had done a bit of experimenting with the 20. During a cold, damp, and most disagreeable period of winter weather I had tried lengthening the stock with a recoil pad just to note results—not that a pad was really needed for easing punishing recoil.

Quail were often plentiful in those days. But even then I was careful to take but few on my frequent hunts in order to guarantee abundant seed stock—a near lifetime procedure as far as I am concerned.

Hunting for a few hours daily during that bad weather I downed a total of ten straight quail. It was most unusual shooting for me, and I thought I had made a great discovery. But the wind was taken out of my sails later, when the weather moderated. For I missed more than ten straight and continued such poor shooting that I pulled the recoil pad off and went back to my old form.

I believe that lengthening that stock made me shoot low. And during the unusually bad weather the birds kept close to the ground in flight. That accounted for my ten straight. When normal conditions returned I probably shot under my birds with the longer stock.

Later, my experiences led to more careful comparisons of the two guns. Checking every detail with minute care I found a difference so slight as to be easily passed over. Although they were of almost exactly the same length the .410 had a one-fourth inch shorter stock.

By way of additional experiment I then removed the butt plate from the 20.

Since that change I have noted appreciable results. I am much more likely to miss cottontails by overshooting. But I get my quail clean, or miss altogether, as a rule. Quail are normally rising targets, and that quarter-inch difference in stock length seems to place my charge a bit higher, to my great satisfaction.

All this adds up to a suggestion for fellow-gunners. It is this: Experiment on clay pigeons with various lengths and drops of stock, and down pitches or absence of down pitch of barrels, until you get the right combination to meet your needs.

Those lengths, drops, and pitches can be modified by adding a recoil pad, removing a butt plate, slipping a bit of wood beneath heel or toe of butt plate, or similar simple but effective operations. Chances are, though, you'll be like most of us gun nuts, and demand 'nothing but the best'—perfect fit and perfect finish to hide any changes. Fortunately, it's not too much of a job for the average home-workshop man.

If unsightly empty spaces exist between butt and butt plate after the proper combination has been found, Plastic Wood will fill them up to the extent that your gun may be both handsome and serviceable.

Always remember, some such easily accomplished modification may overcome a desire to wrap an excellent gun around the nearest post. There is no point in losing the incomparable thrills connected with good shooting—glory be, thrills that may be enjoyed almost from the cradle to the grave. ♦ ♦ ♦

IF YOU HAVE A METAL-WORKING LATHE IN THE BASEMEN
HERE'S A PRACTICAL WAY TO CUT RELOADING EXPENSE

HOME-MADE BULLET MOLDS

A RIFLEMAN "HOW-TO-DO-IT"

By WESLEY O. WALK

THE BULLET MOLDS illustrated on this page were originally made to cast bullets for cap-and-ball and obsolete cartridge arms. However, they can as easily be designed for experimental cast bullets in modern arms—or as a means of getting even cheaper shooting. All of the work can easily be done on a small bench-lathe, the use of castings or milling machi being unnecessary. Cognizance is taken of the difficulty cutting a mold in the lathe with a boring tool, and of the ti required to cut a cherry by this method. Still, the method adaptable to the manufacture of molds for casting the bull used in handloading wildcat cartridges and should be of valu both economically and as a time-saver, to many shooters a experimenters.

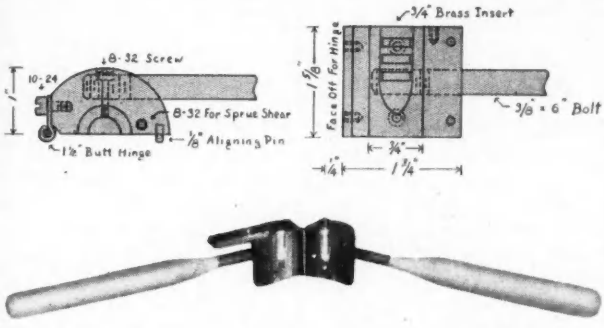
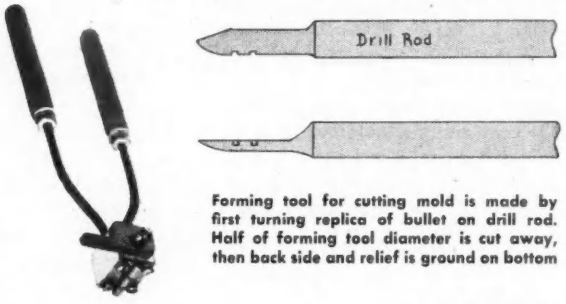


Figure 1: This mold was made by the author to cast a .40-caliber Sharps bullet. Above it are two sectional views, showing details of the mold

Excellent molds can be produced in a minimum of time using a forming tool to cut the mold. An exact replica of t desired bullet you wish to have a mold of is turned on the e of a piece of half-inch drill rod. Half of the diameter is th ground away, and relief is ground on the back side and botto This relief grinding should remove all the grooves on the to except, of course, those at the cutting edge. The tool is th hardened by heating to a deep red and quenching in oil. steel blocks will be cut with it, the quenching should be do in cold water, although this may make the tool brittle and ca must be taken not to break it.



Forming tool for cutting mold is made by first turning replica of bullet on drill rod. Half of forming tool diameter is cut away, then back side and relief is ground on bottom

The steel blocks are set up in the lathe and drilled to diameter slightly less than that of the finished bullet, b large enough to allow the forming tool to enter. The dep should be very nearly the length of the finished bullet. T forming tool is then clamped securely in the tool post or in boring-bar holder and run into the drilled hole until the dep of the hole equals the length of the finished bullet. If t tool goes too deep, the block can be faced off later. The cuttin edge of the forming tool is then fed into the block by mea of the cross feed until the final desired diameter is produce This may be determined by a plug gauge, although it woul be more desirable to remove the mold from time to time an cast a bullet to check the size.

In the interest of economy, a brass insert may be put i steel blocks. Inserts of various calibers could then be use

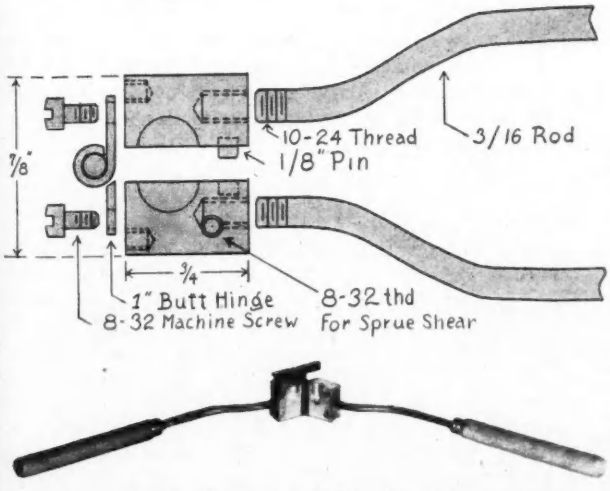


Figure 2: Experimental aluminum-alloy mold for .36-caliber cap-and-ball bullet. Above are two views of forming tool for cutting mold in lathe. Fastening butt hinges on mold blocks is a critical job. Hinges should be fastened first, then mold faces trued before cutting the bullet cavity

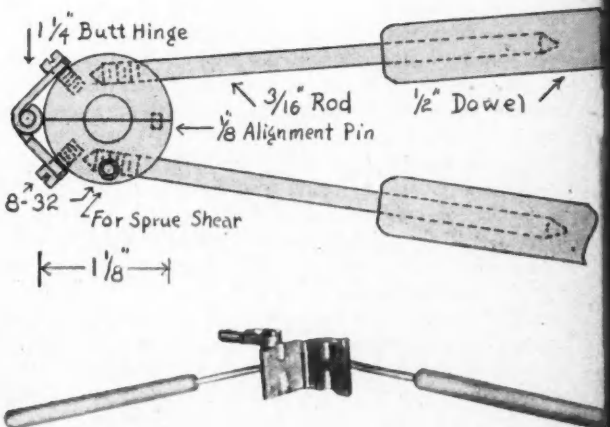


Figure 3: All-steel mold cut for two short bullets, one in each end of the block. Sprue cutter must be transferred to the cavity in use

with the same set of blocks and handles. If the blocks and case and it was rumored that the affair had proved to be a three-jaw chuck, or better, in a collet. If such a procedure is used, the blocks or inserts must be sawed in two, faced, and aligning pins installed. One end is held in a chuck while the other end is turned to fit the collet. This provides a semi-production method if several molds are to be made. By cutting the mold while the blocks or inserts are held in a collet, they may be removed at any time to make a cast and returned to the collet with the assurance that they will be concentric. Such a mold for a .40 caliber Sharps bullet is shown in Figure 1.

Figure 2 shows an experimental mold cut in a block of aluminum alloy for a conical .36 caliber cap-and-ball bullet. Aluminum was chosen because of the ease with which it can be worked, with satisfactory results, although some handloaders may prefer larger over-all dimensions. The mold, being much softer than brass or steel, must be cared for accordingly

Figure 3 is an all-steel mold cut for two short bullets, one in each end of the block. The same sprue cutter is used for both molds by transferring it from one end to the other.

All molds are hinged with butt hinges of an appropriate size. If a mold is small, it need not be flattened where the hinge is fastened, as in Figure 3. Larger molds should be faced as in Figure 1. Handles are made by drilling the blocks to rods or long bolts as large as the dimensions of the blocks will permit. Sections of doweling or broom handle provide cool grips. ♦ ♦ ♦

☆ ☆ ☆

Chicopee Falls Rifle

(Continued from page 43)

case and it was rumored that the affair had proved to be a costly one for the Massachusetts Arms Company and that $25,000 had to be paid to Colt in order to settle the case. As was to be expected, production fell off after this and a number of men found themselves out of work. However, the Company's purchase of the rights to manufacture the Maynard rifle permitted their re-employment in a short time.

The winter of 1852-53 was dull for the Massachusetts Arms Company. The next year, however, sewing machine business kept them busy and contracts for rifles began to flow in. Soon they were selling rifles to the U. S. Government and to Great Britain, and were receiving orders from Colt himself for gun-making machinery. The panic of 1857 does not appear to have affected them adversely, for a few months later they were employing a hundred men. Some losses were incurred in 1859, but were more than made up in the following year.

Experience, management, skilled gunmakers (Warner and Stevens), and the existence of a pool of skilled workers in the area were contributing factors to success. An expanding frontier and unsettled conditions in the South made a good market for firearms. The latter condition, for example, led to the sale of guns to John Brown of pre-Civil War fame. Brown had lived in Springfield and knew T. W. Carter. In 1856 Brown wrote Carter from Kansas Territory: "I very much want a lot of carbines as soon as I can see my way clear to pay for them and get them through safe. . . ." Carter offered to supply Brown with 200 carbines at a reduction of 50 percent because, he wrote, he "wished to help . . . in your project of protecting the free state settlers of Kansas and securing their rights to the institutions of free America. . . . We have no fear that they will be put to service in your hands for other purposes."

At the outbreak of the Civil War, the Massachusetts Arms Company had eighty men at work producing the Maynard Rifle. The next year this number doubled and by 1864 the company was employing 200 workers. Profits earned were large.

The Ames Manufacturing Company enjoyed a similar war boom. Ames was producing brass cannon—later, swords, shot, cannon, and bayonets—for the Government. As one of the best known ordnance and machine shops in the country, its production of gun-stocking machinery was of importance to other arms makers. By 1864 Ames was the largest manufacturer of sidearms in the country and was experimenting with the manufacture of large wrought-iron rifled cannon (which never saw service).

The war hit heavily the cotton manufacturing factories of the Chicopee area. However, poor wage disbursements by the Chicopee Manufacturing Company (one of the largest textile mills) was more than compensated by the large monthly wage bill of the Massachusetts Arms Company.

The end of the war affected the Massachusetts Arms Company adversely and its specialization on firearms left it in a vulnerable position. When arms contracts were terminated, the company had no other goods in process of manufacture to absorb the shock and it was decided to sell out. The water power rights reverted to the Chicopee Manufacturing Company, while the plant itself was sold to the newly organized Lamb Knitting Machine Company. The firearms business was thus terminated in 1866.

T. W. Carter, however, took over the rights to manufacture the Maynard rifle and for a few years continued its production on a smaller scale than formerly.

Under the stimulus of war demand, J. Stevens left the Massachusetts Arms Company and in 1864 set up a small shop of his own to manufacture breech-loading arms and mechanic's tools.

In 1867 the Stevens Arms Company, as J. Stevens called his small shop, was employing thirty men. It survived the post-war depression and slowly expanded its production of pistols, calipers, dividers, and pruning shears. In 1872 the company commenced the manufacture of breech-loading shotguns, and forty men were employed. By 1877-78 orders were plentiful and it was necessary to start night work in order to keep up with the demand for sporting rifles which resulted from the current 'rifle shooting craze.' In 1885 the company was incorporated with a capitalization of $40,000 as the J. Stevens Arms and Tool Company. In 1902 the company commenced the manufacture of the Stevens-Duryea automobile and in 1906 the automobile business was separately incorporated. In 1915 the J. Stevens Arms and Tool Company was acquired by the Westinghouse Electric Company, which sold the plant in 1920 to the Savage Arms Company, a subsidiary. ♦ ♦ ♦

MISSING: 71,000,000 ducks

BY F. WALLACE TABER

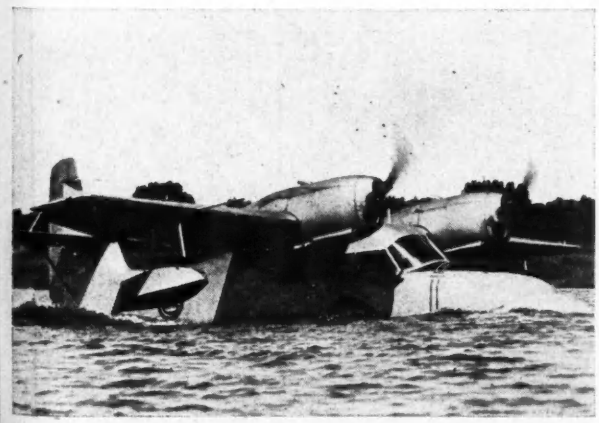
ARE MEXICO'S MARKET-HUNTERS THE CULPRITS IN OUR GROWING DUCK FAMINE?

DURING THE PAST three years of duck depression, more than one outdoor columnist, prompted by a battery of letters from wildfowlers, has pointed an accusing typewriter in the direction of Mexico.

"Halt the Mexican market-gunning and you'll bring back the ducks! And, while at it," they hunt-and-peck with visions of plump roasted breasts of greenhead mallard adorning menus from Tia Juana to Tampico, "cut the bag limit, shorten the season, and enforce both. In Mexico, that is."

Granted that the continental duck population in the past three years has nose-dived from 125 million to 54 million, by best guesstimates, what part is actually played by the Tarasco Indians, by the Mexican meat-hunters, and by the foreign element—90 percent Americano—in Mexico? Combined, have they done away with 71 million ducks in three years? If so, has it been legal or illegal? Are Mexican duck laws too lax, or sufficient but unenforced? Are Mexican meat-hunters and their armadas accountable for the millions of missing migratory waterfowl? In short, is the typewriter tirade justified?

To the uninitiated, the 'armada' is a multiple-barreled breastwork of guns stationed in a commanding position adjacent to a well-baited and heavily frequented duck rendezvous. Ordinarily the armada is situated in a field adjoining a lake, for most of the waterfowl harvested are of the puddle-duck variety which frequent grain fields in quest of better rations. Sometimes, however, it is directed over the heavily baited shallows of a lake.



Grumman Widgeon, usually loaded to capacity on its duck survey flights, carried U. S. duckologists on 45-day inspection tour of Mexico last winter

According to one Mexico City sportsman who, 'for the experience, nothing more,' participated in an illegal gunning escapade, his Mexican tutor loaded his armada—'home made and of nothing more than several lengths of pipe'—with various and sundry odd bits of scrap iron, nuts, bolts, and a sprinkling of shot.

In their selection of 'shot' the Mexican market-gunners differ from those of Gulf Coast marshes, Chesapeake Bay, and other acknowledged U. S. market-gunning hangouts where lead shot is preferred . . . and used.

Waiting for a favorable concentration of wildfowl, the Mexican armada hunter, when he finally pulls the trigger . . . and he may do so three or four times a week . . . bags anywhere from 50 to 200 ducks. In former years of wildfowl abundance, he bagged upwards of 2,000 in a single volley.

The individual ingenuity of the market-gunner is reflected in his armada. It may be designed to handle but a single shot. Or, it may be rigged to fire two volleys, one at ground level and the other with sufficient elevation and appropriate timing to knock stragglers out of the air when the first blast frightens them into flight.

Chesapeake Bay market-gunners at one time accomplished the same thing by stepping to the rear of their boat for the second shot. Changing the balance of the boat lifted the bow skyward, and usually resulted in more ducks than the pot shot on the water.

While reports conflicted as to whether armada gunning was holding its own, increasing or waning, there was general agreement that market-gunning with ordinary arms was increasing.

"Heavy importation of single-barrel shotguns and bolt-action repeaters has definitely resulted in a much wider ownership of guns among the people throughout the country," a Mexican official advised. "This condition has created a new field for inroads on the wintering duck population which did not exist when the natives were using almost exclusively muzzle-loading arms."

At one duck lake near Mexico City during the past winter, an estimated ten to twenty-five market-gunners, armed with reasonably modern and efficent weapons, operated.

"I have personally seen several of these market-gunners return early on a Sunday morning with fifteen to thirty ducks shot off local pot holes—usually shot on the water, for they are interested in meat, not sport—and with a greater number of coots or whitebills in addition," advised an American manufacturer residing in Mexico City.

Apparently wildfowl netting, such as is now practiced in the lower reaches of the Chesapeake Bay in Maryland and Virginia, has not gained much momentum in Mexico.

"Certainly there must be some netting of ducks," said one informer, admitting ignorance as to specific instances.

While netting and pot-hunting waterfowl are market meth-

Several hundred thousand ducks, both native and migratory, were observed on coastal lagoon near Laguna Madre, Tamaulipas, Mexico, last winter

ods not at all unfamiliar to American sportsmen and federal game-management agents, one type of wildfowling at least is unique to the land of siestas, senoritas, and sun.

On Lake Patzcuaro, Michoacan, Tarasco Indians hunt ducks with sticks and spears.

"While their methods are somewhat primitive," said the late Major E. A. Goldman of the U. S. Fish and Wildlife Service, "their results are often very successful."

Organizing their dugout canoes in a long line across the lake, the Indians herd the waterfowl toward the opposite shore. Although the majority of the mallards, teal, pintail, tree ducks, and muscovies fly over the line of 'beaters,' some, along with flocks of mudhens, seek safety among the tules and cattails. These are subsequently driven out and made to 'run' the gamut of spear-slinging Indians who, despite precarious canoes, are most expert marksmen.

While few of the Tarascos make a practice of selling their ducks, such is not the case with the Mexicans. Meat hunting is their business and, upon occasion, business is good.

Just previous to the past legal gunning season in Mexico, a pair of pintails brought from nine to eleven pesos. Later, when the local crop of mottled, muscovy, and tree ducks was augmented by migrating species from the U. S. and Canada, prices fell to the point where a brace of pintails brought only seven to eight pesos.

Prices paid for Mexican market-gunned ducks vary with the season. While the pintails and mallards range from eleven down to seven pesos as the season progresses, teal remain fairly stable at five pesos a pair. Mudhens, which greatly outnumber the ducks shot, bring anywhere from 75 centavos to one peso, according to size and condition.

"The Mexicans kill millions of ducks every fall and winter," believes the average U. S. sportsman. He is mentally quoting what he has read in an outdoor column or two 'round about the States. He may have had his imagination fired by the availability of wild ducks on nearly all bordertown menus . . . they are there alright, and rather inexpensively, too.

What the average American sportsman fails to realize is that he is the main reason for the presence of wild ducks on the menus from Cuidad Juarez to Villahermosa and Acapulco to Veracruz. Were it not for his pampered palate and bulging billfold, the Mexicans would not kill for the market. There would be no market.

"Mexicans seldom order wild ducks in the restaurants," advised George B. Saunders, flyway duckologist for the U. S. Fish and Wildlife Service. "If it were not for the demand for ducks by foreigners—mostly Americans—in Mexico, there would be little, if any, commercial shooting there. We have no indication that they are shipped into the States."

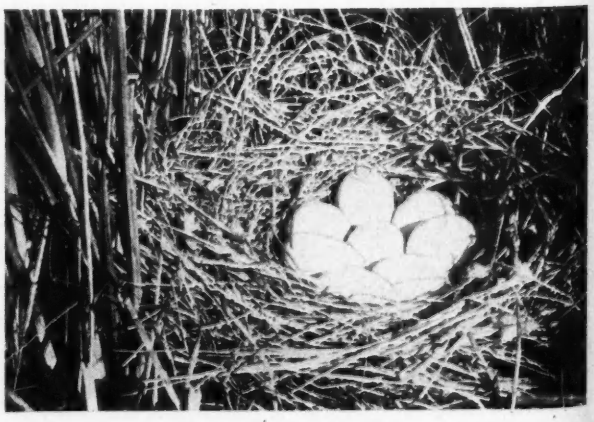
"Many Mexicans thoroughly appreciate the situation," advised one Mexico City business man. "Verbally and by example, they do what they can to educate others to the seriousness of the situation, to the loss involved in uncontrolled killing and sale of migratory birds. Numerically, however, these individuals are not able to do much in the face of the overwhelming number and ignorance of others.

"We feel that the most feasible approach is to get the support of officials to stop the sale on birds," he suggested. "Actually, however, all this seems to do is to raise the price of a duck. While there seems to be some reduction in armada hunting because of an awakening knowledge of the law and treaties, there is still a very great deal to be done in the way of education and in the elimination of political participation in the fruits of the armada."

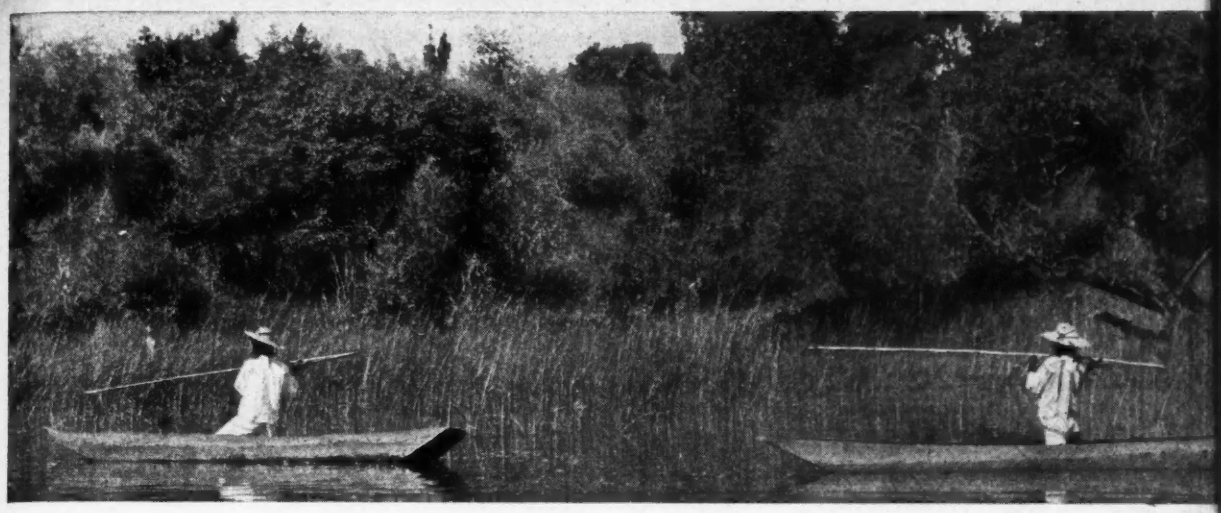
Like Canada, Mexico is a signatory nation to the International Bird Treaty Act along with the United States. These treaties govern not only maximum bag limits, seasons, and methods for taking migratory waterfowl, but also specifically outlaw their sale.

In each country, the length of the season, bag limit, and other restrictive regulations depend upon existing waterfowl conditions. The population density of breeding, resting, and wintering waterfowl, plus the amount of hunting pressure, combines to set the U. S. wildfowl season. While less informations is available in Canada, the procedure is the same. In Mexico, conditions are different. No one knows how many gunners there are, or how many ducks there are, or how large the kill is. As a result, regulations are hit-and-miss. Ordinarily, Mexican officials allow maximum treaty limits. This is seldom done in the U. S.

It is well recognized that hunting pressure in Mexico is far



Several species of duck not only winter in Mexico but also nest in the southern republic. This egg-filled nest of a mottled duck was found near Lerma



Primitive canoes, throwing sticks, and spears are used by Tarasco Indians on Lake Patzcuaro to take waterfowl. Some drives are very successful

below that in Canada and only a fraction of that of the U. S. As a consequence, regulations are lenient. The season runs for four months and a hunter is allowed 25 ducks per day. Other than that, there are literally no holds barred.

To America's twelve million licensed hunters accustomed to last year's 28 to 35 days of gunning and the four duck bag limit, Mexico's regulations were practically non-existent. However, it should be remembered that hunting is more than a sport in Mexico. It is a luxury. Few are able to afford luxuries there. As a result, there are several times as many wildfowlers in California alone as there are in all of Mexico.

"Shooting ducks for sport is limited to a few thousand upperclass Mexicans around the larger cities and to an equal number of Americans who live in Mexico or who come in from the north for the purpose of hunting," said Dr. A. Starker Leopold, now associated with the University of California. "Although the daily bag limit is not observed, the number of hunters is so small compared to our situation in the U. S. that the kill can be considered negligible.

"The shooting of armadas, particularly on Lake Texcoco, is most annoying and is in flagrant violation of the Migratory Bird Treaty. But the total annual kill throughout the country from all sources combined, legal and illegal, is probably less than we shoot in this country on an average autumn weekend. I would say," advised Leopold, "that half a million ducks would be the maximum possible estimate of the total duck kill in Mexico. This figure may be high," he added.

The Mexican duck problem actually boils down to a single word—education. Without it, waterfowl will always be slaughtered for the market. No amount of laws and law enforcement can cope with the situation without first an educational program.

Recognizing the fundamental soundness of such a program, Ducks Unlimited, Inc., the Canadian-American answer to international co-operation along both educational and rehabilitation lines, last year organized its first Mexican contingent.

Under the direction of Frank A. Sanborn of Mexico City, D. U. set up the first South American chapter. Translation of D. U. literature into Mexican is already being done.

Said D. U. Chief Naturalist B. W. Cartwright, "I recently had a confidential report from a D. U. member who spent considerable time this winter in western Mexico and in the central parts around Mexico City. While I cannot disclose the confidential details which were most convincing, I can tell you that his summary of the Mexican situation is that the stories of excessive kills are greatly exaggerated. This applies to both market-hunting and the armadas."

In probably the most enviable and most authoritative position of all duck authorities is George Saunders.

He says: "During my studies of waterfowl wintering grounds along the Gulf Coast since 1936, I have thoroughly investigated the extent of hunting and the commercial sale of ducks in Mexico. As recently as January, 1948, using a Grumman Widgeon, much of Mexico was scouted to ascertain wintering duck populations present. City markets were also visited to determine the extent of the sale of ducks.

"Hunting pressure is very light," said Saunders, "commercial sale is small; more than half of the birds sold as ducks are coots. The largest kill takes place in the State of Sonora, but even there it is insignificant by comparison with coastal areas in the U. S. The kill of ducks in the Mexico City sector has been very greatly exaggerated, especially that reported to be made by the use of armadas. Over much of Mexico, with the general availablity of beef, mutton, goat, and chickens, and the Mexicans' preference for these meats, there is almost no native demand for wild ducks.

"Taking both legal and illegal kill throughout Mexico," Saunders concluded, "the total is conservatively estimated at 460,000 ducks. This is extremely small when one considers that a large percentage of North American ducks migrate through or winter in Mexico every year. If the number of ducks shot by American hunters in Mexico were subtracted from the kill, the remainder would be less than one percent of the kill of ducks in the U. S."

In substantiation of Saunders' report, Clarence Cottam, Assistant Director, U. S. Fish and Wildlife Service, said, "We have a better idea of the waterfowl conditions in Mexico than the Mexicans themselves. Why shouldn't we? In addition to Saunders' annual trips, we have had a trained biologist in Mexico City for the past eight years. We have had undercover men scouting the Mexican markets and market-gunning.

The next time you are tempted to blame Los Caballeros *sud de la border* for the duck shortage, remember that, as compared to their half a million birds, Canada accounts for four million, the United States for roughly twenty-four million each season. ◆ ◆ ◆

THE OLD COACH'S PAGE

A pistol enthusiast for over twenty-five years, the author of "The Better Way" began shooting at the Springfield Revolver Club when Dr. F. W. Mann was conducting his experiments. Later he shot with experts J. H. FitzGerald and Colonel Roy D. Jones. One of the first to prove that a pistol shooter can add several points to his score by giving some attention to the physical details of the gun, he has long advocated the altering of sights and grips to meet a shooter's personal requirements.

THE BETTER WAY

FOR AS MANY YEARS as I can remember, we pistol shooters have tried to improve scores by attempting to solve an impossible problem. Our efforts have been to find a way that would permit us to see both the sights and the bullseye clearly. We have spent money for special glasses, tried orthoptic discs, sights of various widths and shapes, and a dozen other schemes. All of them have failed to give us the ease of sighting which is necessary to make shooting a real pleasure.

Sometimes I wonder if we do not deliberately pass by the simple solution and force ourselves to consider complicated ways of getting the result wanted. This certainly has been our procedure in trying to solve the sighting problem. The solution has been with us for years. We had only to apply what was well known to eliminate much of the strain resulting from attempts to shoot the accepted way.

For the past fifteen years at least I have suggested to shooters (as a way to prove to themselves that the important thing is the alignment of the sights rather than the attempt to hold at the exact six o'clock point on the bull) that they put the target up backside toward them so that they could not see the bull at all. Then, aiming at what they guessed was the six o'clock point, make sure that the sights were properly aligned and go ahead and shoot without fussing or prolonged holding. Hundreds of shooters have tried this experiment and everyone has told me that he scored just as high or higher as he did when he could see the bullseye. Another experiment which gave the clue to the proper solution came from several of the finest shots in the country. They told me that they made better scores when they lined up the sights to one side of the bull, then moved the gun over so that the sights seemed to be about in the center of the black and fired the shot without further holding. No long wait while trying to get the sights on the exact center of the black, no waiting with the hold becoming less and less steady. Instead a simple alignment of the sights, a prompt squeeze, and—better scores.

It would seem as if anyone of us should have seen what these experiments prove, but instead we have gone on trying to find some way to make two plus two equal five.

Perhaps a story credited to Jake Engbrecht, famous for his ability to make scores when they are needed, will be a help in getting our thoughts running in the right direction. Jake—so the story goes—got on the firing line in a match and found that he had forgotten his glasses. There was no time to look for them. When the time came to shoot, Jake simply aligned his sights, which he could see, in what he judged to be the center of the fuzzy gray spot that was the bull and shot his score. When the match was over he had set a new record for the National Match Course with the .45.

The conclusion must be clear. But the question is—how many shooters will have the courage to simplify the job and get more sport and fun from their shooting?

The 'perfectionist'—the chap who cannot squeeze the shot off until everything is exactly right—will have a tough time adopting the simple way. However, he is the chap who most needs the help. The more easily satisfied individual probably already in a way has adopted the method. If not, he too will shoot better by doing so.

The method is simple in the extreme. Put up the target backside toward you and guess at the six o'clock or center point, whichever you use for aiming. Or if you do not like to attract attention to yourself by so placing the target, get some glasses which *make the bull fade out as much as possible* but with which you can see the sight clearly. Then put your attention on the sights, align them without any fussing on the gray blur of the bullseye, and get the shot away as soon as possible. If you cannot see the bull at all, so much the better—just sight your gun for a center hold and guess at the center of the white square of the paper.

Two carefully conducted experiments have given results worth the consideration of all pistol shooters. One I made myself, the other was made by a friend fortunate in having a 50-yard indoor range available. One thousand shots were fired by each of us, 500 using a six-o'clock hold, 500 using a center hold with the bullseye so blurred that definition was practically zero. Shots were fired in groups of 20, alternating on the two targets. My friend's average for 500 shots using the six-o'clock hold was 85.7, his average for 500 shots on the blurred bullseye was 92.6. My own average for 500 shots at 20 yards using the six-o'clock hold was 84.8, my average for 500 shots on the blurred bull was 91.2.

To get the blurred bull my friend simply took off his glasses, since without them he could see the sights clearly but not the bullseye. I had my oculist rig up some glasses to give me the same result. Perhaps the most interesting thing we found in this experiment was that while we really worked when using the six o'clock hold, we had no difficulty whatever in shooting easily at the blurred bull.

These two tests do not by any means prove that the blurred bull will give best results for every shooter. It has been suggested that the combination of blurred bullseye and more rapid 'let-off' results in a better trigger pull, which results in a better shot. Such a general conclusion from a specific test is impossible, but for me and my friend, the case is closed. We will never again try to balance the bull on the top of our front sights, like the ball on a trained seal's nose, nor will we hold and hold trying to do something that is not possible. We will line up the sights in what we think is the center of the bull, pull the trigger, and see from the scores what results.

Maybe the reader can make his pistol shooting more of a sport and push his average up by this method. If so, I'll not regret expending those 2000 cartridges that my friend and I used in the test. ♦ ♦ ♦

THE SPOTTING SCOPE -- September 1948

NRA Director Seth Gordon, after 25 years in conservation work, has retired as Executive Director of the Pennsylvania Game Commission . . . and will be succeeded by Thomas D. Frye, well-known state official. . . . Seth will devote his time to national conservation work. . . . Rhubarb of the year . . . in July, express offices in El Paso and other Mexican Border cities caused consternation by refusing to deliver small arms of any kind to consignees in that area, "on orders from the War Department.". . . No one in Washington had heard of such orders, but three weeks of investigation by NRA in the State Department, War Department, and Railway Express Offices from El Paso to New York disclosed an order signed 30 years ago during World War I . . . which a clerk at New York headquarters of the express company had pulled out of file and redistributed to Mexican Border offices! . . . All shipments are again moving normally. . . . National Skeet Association officials are glowing over prospects of a big turnout for their National Championships at Las Vegas, Nevada, this month.

Associated Press dispatch from London credits U. S. shooting teams with the Olympic team shooting championship on the basis of unofficial point tabulation . . . there being no official team shooting title in the program. . . . However, that score credits America's Joe Benner with a tie for second place in the Slow Fire Pistol when actually he was outranked into fourth place. . . . That would make America tied with Sweden for the unofficial team title with eighteen points each . . . still plenty good (see page 16). . . . Les Pope of Los Angeles sends in a picture for our files . . . on a page clipped from the September, 1946, issue of Sunshine & Health magazine. . . . It shows two riflemen and a handgunner on a nudist camp range . . . not recommended, says Les, in a six o'clock wind.

An orchid to Jack Lacy for voluntarily giving up the opportunity to participate in the Olympic tryouts because of the possibility that the ambiguous amateur ruling would be interpreted to rule him out as a professional after the squad arrived at Bisley. . . . Although Lacy is eligible under our interpretation of the rule, he was too good a sportsman to want to embarrass the American Rifle Committee or the team by having any additional arguments arise at the Olympics. . . . Chaplain Harry Kerkow, of Wood Veterans General Hospital, Milwaukee, Wis., is appealing for the duck stamps off old hunting licenses for a group of collectors there. . . . Secretary of the Navy John L. Sullivan recently typified that service's continued interest in small arms competition by personally receiving and commending the champion Bureau of Ordnance Pistol Club team, winners of 21 of 24 matches last year.

The National Rifle Association of India is being born under the patronage of the Governor-General of India and through the efforts of non-resident NRA member Nripen Sarkar, of Calcutta. . . . Chief of Police Jack Baumgardner, of Hawthorne, Calif., has instituted a progressive program to provide an outlet for the "shooting energy" in boys of his city . . . with a program of free instruction and target practice on the new police range. . . . Each policeman on the force will take at least one boy under his wing and encourage him to take the instruction. . . . First college course in the country to teach safety measures in the handling of firearms will be offered by the University of Illinois Chicago Undergraduate Division at Navy Pier . . . with instruction by Director of Athletics John O. Jones. . . . Likable Sam Tekulsky, of New York City, has extended a helping hand to re-establish Shooter's News, P. H. Teachout's fine East Burke, Vt., newspaper, in the form of a loan based on reduced-price sales of his spotting scope stand. . . . Gerald O. Kelver, who has been trying for years to arouse the interest of shooters with enthusiasm for the old single shots, is on his way now with the American Single Shot Rifle Association. . . . If you would like to shoot your old breech-loader in competition, contact Mr. Kelver at Box 49, Osceola, Indiana. . . . J. Ross Dunnigan, writing in Emile Dutil's elaborate bulletin of the recent Pacific States Pistol Championship at Los Angeles, reports that when Ed Walmsley, of Seattle, and Harold Churchman, of Los Angeles, tied with 199's at .22 Timed Fire, both had nines on the last string and it was decided to break the tie with a flip of the coin. . . . You guessed it . . . the coin stood on edge. . . . Don't forget the NRA Convention and Exhibit and the National Championship at Washington, October 25-28.

Ray Stann

Eight More Regionals Decided; Cook, Carlson Win in East

The **Northeastern Small Bore Rifle Regional Championship** was conducted on July 9, 10, and 11, under the sponsorship of the Connecticut State Rifle and Revolver Association on the beautiful Blue Trail Rifle Range at East Wallingford, Connecticut. A total of one hundred and eighteen competitors fired for the Championship title. Dave Carlson led the field in the Metallic Sight Aggregate with a total score of 1585-96; Arthur Bockmann placed second at 1582-90. Roy Kuhn eased Carlson out of the first place berth in the Any Sight Aggregate with a total score of 1593-110 while Dave had 1591-103. When the totals for the Grand Aggregate were compiled, it was found that Carlson led the entire field with 3176-199, followed by Roy Kuhn who had a 3173-203. Fred Kuhn placed third with 3168-191.

A.A.Ferber placed first among the Experts with 3164-177; Pat Baldwin won first place in the Sharpshooter Class with 3133-143 and Charles E. Lyman led the Marksman Class with 3118-132.

☆ ☆ ☆

The **Eastern Regional Small Bore Rifle Championship** was fired on July 4 and 5, under the sponsorship of the Altoona Rifle and Pistol Club on the club range at Altoona, Pennsylvania, with a total of one hundred and ninety-five competitors firing. Arthur Cook won the Any Sight Aggregate Championship leading Dwain Colby by two points and 1 X, with a 1594-113. "Cookie" won again in the Metallic Sight Aggregate with a 1592-93 to give him the Eastern Regional Championship with a total aggregate of 3186-206x. Lawrence Moore was second in the Regional Championship with 3174-193x, a total of 12 points and 14x's behind Cook! Reports from the tournament officials indicate that "Cookie" won everything that was loose on the range. They were worried for awhile about the security of their flag pole, since "Cookie" had his eye on that.

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On June 26 and 27, one hundred and ninety-nine competitors met on the new Chief Wa-ke-de Range of the St. Joseph Valley Rifle and Pistol Association at Bristol, Indiana, to compete for the **Mid-Western Small Bore Regional Championship.** Earl M. Saunders took the lead in the Any Sight Aggregate by firing 1594-120 followed by Arthur C. Blocher with his 1594-107. Waldo E. Seagly also fired 1594-107 but was outranked for the third place position. John Perzo won the top honors in the Metallic Sight Aggregate by firing 1589-92. Earl Saunders placed second with the iron sights, five points behind Perzo with 1584-87. Saunders came through to win the Mid-Western Small Bore Regional Championship with his aggregate score of 3178-207. Louis Grandidier placed second at 3177-192, made up of 1594-102 in the Any Sight and 1589-90 in the Metallic Sight. E. D. Bench was third high with 3175-192. Neva Seagly won the High Lady honors with 3148-142 while Robert Benedict was the high Junior with 3161-148.

☆ ☆ ☆

The **Mid-State Small Bore Rifle Regional Championship** was fired on June 26 and 27 at Camp Dodge, Iowa, under the sponsorship of the Des Moines Rifle and Revolver Club in conjunction with the Iowa State Rifle Association. One hundred and fifty-nine competitors were on hand to fire for the championship. The Middle States Regional Metallic Sights Championship was won by John Moschkau who fired an aggregate score of 1596-106 while Henry Geise placed second at 1591-108. Ralph Travis' 1591-102 grabbed third. The Middle States Any Sight Regional Championship was taken by Kyle Snowhill with 1594-117 followed by Byron Putman with 1593-108 and Henry Geise, third, with 1597-107. John Moschkau came through in the Grand Aggregate to win the Regional Championship with a total aggregate score of 3189-208 followed by Henry Geise with 3188-215. Kyle Snowhill placed third with 3186-210. William Moore won the High Junior honors with his aggregate score of 3151-144.

☆ ☆ ☆

On July 3 and 4, the **Rocky Mountain Small Bore Regional** was fired at Camp George West, Colorado, under the sponsorship of the Colorado State Rifle Association and the South Platte Chapter of the Isaac Walton League. One hundred and twelve competitors competed. The Rocky Mountain Region Any Sight Championship Aggregate was won by R. O. Sinclair with a score of 1592-110. H. O. Smith placed second (1586-96) and was followed by A. M. Warren who fired 1586-95. R. O. Sinclair again won first place honors by firing 1584-96 in the Any Sight Championship Aggregate. L. C. Osborn placed second in this aggregate by firing 1577-65. Sinclair's two winning scores gave him the Regional Championship at 3176-206. Ted J. Holm was second with 3158-159, and George Barcus, third, at 3152-156. Jay J. Smith won the Junior honors.

☆ ☆ ☆

The **Southwestern Regional Small Bore Rifle Championship** was fired on June 26 and 27, at Dallas, Texas, under the sponsorship of the Aco Shooting Club with a total of ninety-two competitors firing. John L. Kelley, Jr., won the Metallic Sight Aggregate with 1591-100, followed by E. G. Pope with 1591-90. E. M. Kell won the Any Sight Aggregate with 1593-122 followed by George R. Whittington who had 1593-118. In spite of the fact that John Kelley, Jr., placed fourth in the Any Sight Aggregate with 1590-98, he came out on top in the Grand Aggregate with a total score of 3181-198 to win the Regional Championshop. E. G. Pope won second place with 3179-187, and George R. Whittington, third, 3176-203. The High Lady Awards went to Marie Robertson who fired 3154-169 and the High Junior honors went to Charles A. Hamilton for his aggregate score of 3164-156. B. Ramsey Powell placed first among the Experts; Sam J. Ward took top place in the Sharpshooter Class and Willis E. Virgil, Jr., won the Marksman Class awards.

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The **Southwestern Pistol Regional Championship** was fired on July 2, 3, and 4, at Shreveport, Louisiana, under the sponsorship of the Caddo Rifle and Pistol Club with a total of ninety-two competitors firing. Thomas Park won the .45 Caliber Aggregate with a score of 820 while S. A. McKonem, Jr., placed second with 817. J. N. Woody took top place in the .22 caliber aggregate by firing a total score of 867, followed by Otto P. Peulaskas with 863. Bill Sullivan came through to win the Center Fire Aggregate with 857 which placed him in the second place berth in both the "Two-gun" Aggregate and the Grand Aggregate. His Grand Aggregate score was 2503. J. N. Woody won the Grand Aggregate with 2520, made up of 841 with the C. F., 867 with the .22 and 812 with the .45 caliber pistol. W. T. Tooney, Jr., won third place honors with a 2496. Charles Rossi placed first among the Experts while William J. Peterson was top in the Sharpshooter class. Edward A. Beckelhymer was High Marksman.

☆ ☆ ☆

Herbert E. Walmsley made a clean sweep of the **Pacific Northwest Regional Pistol Championship** matches which were fired at

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Far Southwestern ..... Lee Echols, Medico-Dental Bldg., Room 101, 3rd and A Streets, San Diego, California
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South Bend, Washington, on July 10 and 11. Sergeant Walmsley won the Grand Aggregate, the two-gun championship, the .22 caliber aggregate and the .45 caliber aggregate. In fact, he won nine out of the twelve individual matches on the program. Eugene T. O'Dell finished second in the Grand Aggregate and Walter Day followed in Third Place. The Expert Championship was won by Russell A. Niblock. Alvin F. Chase placed first among the Sharpshooter Class and Taylor G. Burton won the Marksman Championship. Among those competing in the Marksman Class was Herbert Wales of Bremerton, Washington, who is 80 years "young." Mr. Wales came through the grueling two-day match in fourth place in his class and was reported to be as fresh as many of those forty or fifty years his junior. The shining star among the women was Edith O. Buchanans, who fired a winning two-gun aggregate score of 1552.

VFW MATCH RESULTS

VFW Post #703, of Berkeley, California, firing against nineteen other VFW clubs, scored 1468 X 1600 to win first place in the Senior Team Match of the 1948 Veterans of Foreign Wars National Gallery Rifle Matches (Postal). F. R. Chow, G. E. Packard, R. C. Ribak and M. H. Neadeau made up the championship team that fired the top score over the 20 shot prone, 20 shot standing, 50 foot, metallic sight course of fire. VFW Post 577 Rifle Club, of Tulsa, Oklahoma, was runner up with 1467, while the Lt. Lansdale VFW Post 67, of Sacramento, California, took third, with 1464.

Using the team match scores, the individual rankings put Ted DeField, of Lt. Lansdale Post 67, on top as the Senior Individual Match winner with 379. Ray B. Whitaker, Post 577, Tulsa, Oklahoma, ranked second, with 378, and G. E. Packard third, with 374. A total of 80 shooters were entered in the Senior Individual Match.

In the Junior matches, over a 30-shot prone course of fire, the VFW Junior Rifle Club, of Sommers, Montana, executed a double coup to win the Junior Team Match and place one of their team members first in the Junior Individual Match. The Sommers team, made up of Joseph Redfield, Anton Amundson, Jr., Robert Sevier and Francis Van Rinsum, scored 1187 X 1200, four points above the second place score of 1183 fired by Glendale Post 3075, of Seattle, Washington. Third place went to San Francisco County Council VFW Junior Rifle Club, score 1179.

Joseph R. Redfield of Sommers, with a total score of 299 and a standing score of 100, outranked the 299, 99 standing, fired by George Johnson, Santiago-Argonne Post 1102, St. Louis, Missouri, and won the Junior Individual Match. John Hillary, Glendale Post 2075 Junior Rifle Club, won third place with 298, 100 standing. Twenty-three Junior teams and 92 individuals competed.

The beautiful VFW National Commander's Trophies will be awarded to the high Senior and Junior teams, and VFW Trophies will be presented to high individual Seniors and Juniors.

CLUB REAFFILIATION DATES

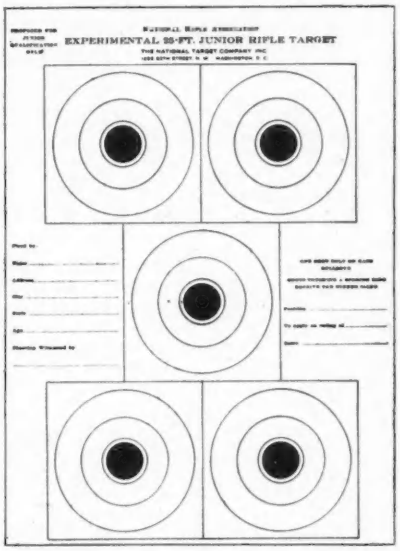
In the past it has been a policy of the NRA to affiliate Class B clubs according to the calendar year. Now, however, because there are so many club and individual memberships on the NRA rolls, it is no longer possible to handle reaffiliations in this manner.

To relieve a year end peak load of work, it has been decided to distribute club reaffiliations throughout the year. The clubs in turn will operate on a fiscal year term instead of the calendar year. Clubs have been notified of this change in policy and many have sent in their acceptance to the plan. The new plan will undoubtedly permit better service to all clubs.

25 FOOT JUNIOR TARGETS

At its February meeting, the NRA Executive Committee authorized experimentation to develop a rifle target for use by juniors on a short gallery range of 25 feet. Many small communities have no available space for the standard 50 foot indoor range.

Some experimental 25 foot targets have now been printed and a limited quantity are available for distribution to instructors of junior rifle clubs or other shooters who will report their impressions of these targets to NRA headquarters. Note the cut illustrating these targets. Dimensions are a direct 50% reduction of the single bullseye



50 foot junior qualification target. Five bullseyes are on each target card and only a single shot is fired at each bull.

Instructors or shooters wishing a few of these targets should address their request to the Junior Section of the Club Activities Division at NRA Headquarters. Please do not request them unless a sincere test will be conducted and a complete report returned to the NRA.

M1 FOR SPRINGFIELD

The purpose of government assistance to rifle clubs is to promote military marksmanship by use of the service arm which is the M1 rifle. The U. S. Rifle Caliber .30, M19'03 and M19'03A1 rifles are obsolete. Sufficient M1 rifles are available for issue to all senior clubs on DCM rolls. In the future, only M1 rifles will be issued to senior clubs. Clubs who have been issued Springfield rifles by the DCM and who wish to exchange them for M1 rifles should notify the DCM immediately.

Club officials are urged to give prompt and careful attention to communications from the DCM. Much unnecessary correspondence is required in order to secure compliance with the existing law authorizing assistance to clubs. Delay in processing requisitions for equipment furnished to clubs is due chiefly to failure by clubs to send in prescribed annual reports, maintain current affiliation with the NRA, and to reply to correspondence. Also the DCM must have a signed acknowledgment of the receipt of all government property issued to each club.

J. BUSHNELL SMITH

As was briefly noted in THE AMERICAN RIFLEMAN for August, Jerome Bushnell Smith, well-known gunsmith and custom loader, was accidentally burned to death by fire in his shop on July 16, 1948.

At the invitation of Major General Merritt A. Edson, the Vermont Commissioner of Public Safety, the Technical Director of the NRA flew to the scene of the accident and assisted in the investigation.

Mr. Smith had his shop in a 4-room building near his home. His body was found in his machine shop, or lathe room, where he had been working on a rebarrelled rifle. In an adjoining room, he had his reloading bench and tools, and in another adjoining room, he had several 150-pound Ordnance cases of No. 4895 rifle powder. An additional room contained powder in 20-pound drums, and a shed against the wall contained large drums of kerosene or fuel oil.

A few minutes after he went into his shop on the morning of July 16, his father and his housekeeper, who were in the dwelling about 100 feet distant, heard a noise like a muffled shot, followed by a loud roar. At the same moment every portion of the shop building was enveloped in flames.

Some minutes later, after the elder Mr. Smith had called the fire department, several large bursts of flame occurred in the northwest room where the No. 4895 powder was stored, indicating the burning at that time of one or more of these 150-pound boxes of powder.

After the fire was extinguished, Mr. Smith's body was found lying on the floor of the lathe room near the door to the powder room. Nearby was the gun that had been rebarrelled, and in the chamber was a fired cartridge that had been struck by the firing pin.

While it can never be known definitely what happened, it appears probable that an accidental discharge of the rifle may have caused a bullet to enter one of the large cans of No. 4895 powder, thus starting the fire.

Tests have shown that No. 4895 powder is particularly stable, and can stand storage under extreme temperature conditions of 130° F. for 3 years or more without change in ballistic qualities. It is known, however, that if a high velocity bullet is fired into a large container of fine-grained rifle powder at short range, a fire may result.

It is interesting to note that the many 20-pound powder drums stored in the northeast room of the building were found after the fire to be bulged and moderately split along the seams, indicating strong internal pressure but no explosion. Drums which had contained kerosene were similarly bulged. Primers stored in commercial containers on a shelf had the boxes deeply charred, but the primers had not exploded.

Mr. Smith, who was 54 years of age, had served 30 years in the U. S. Navy and had

A PAPER FOR PEOPLE WHO SHOOT

Rifle

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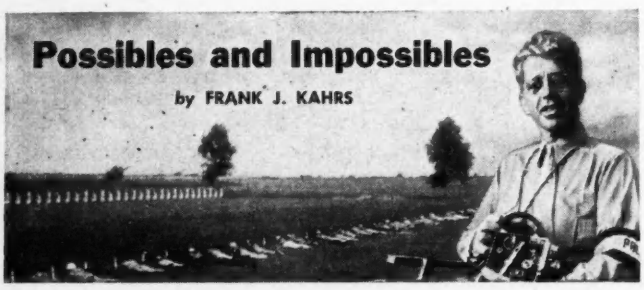


Possibles and Impossibles

by FRANK J. KAHRS

Yesterday, July 14, we saw the four American Olympic Shooting Teams off for Europe on the good ship "America." There were twelve in the party of actual shooters; three slow fire pistol; three rapid fire pistol; three free rifle 300 meters; three small bore 50 meters. These men are going to set up some tough competition for somebody in Europe during the Olympics, and we could not help but recall a similar send-off as this great ship sailed away.

It was exactly 40 years ago that we saw the 1908 Olympic Rifle and Pistol Teams sail from practically the same spot for London. Most of those men are gone but their deeds will still remain. In fact, only one man of that team remains and he was at Quantico for the tryout the other day.

* * *

Now let me take you back to this week-end, July 9, 10, and 11 at Quantico, Virginia, on the United States Marine Corps Rifle Range. Some 76 rifle and pistol shooters were battling it out for twelve places on the Olympic teams. There were 36 trying for the small bore team and of course only three could make the team. Each of the 4 team try outs was a nerve-wracking test. They swayed back and forth, and after every relay, a change in the standing was noted as the tryout progressed. The leading seven or eight shooters bunched more closely while the distance widened among those following. One or two dropped out but most hung on determinedly. It was not until the last relay was fired and the official scores announced that anyone could be sure who made the team, because the number of X's was to decide this. The high man was perched on top all the time with that precious one point to spare, while second, third and fourth places were tied on totals, and the X's had to be employed to decide which two of these three could make the team. The losing man failed to make it by 4 X's. However, had he one point more he would not have needed any X's at all, and my recollection is that he had somewhere around 161. In a tryout of this kind you need points first, but if you are tied you need a lot of X's.

* * *

The small bore competitors had an easy time of it. The 300 meter free rifle group had their work cut out for them. This was a grueling contest; 60 shots in each position was more than a day's work, and there was plenty of breeze there. The shooters did not mind the wind so much, it was when it stopped for a minute that they almost fell over.

* * *

The rapid fire pistol boys had to be on their mettle most of the time; 5 shots in four seconds. One stage of the game is something to see. Try it if you don't believe it. The slow fire pistol boys staged one of the most brilliant battles for a place on the team that has ever been seen anywhere. Here again it was nip and tuck most of the way, and a garrison finish if I ever saw one. On tryouts for places on such an important team as the Olympics, there are bound to be heartaches and disappointments. It is an honor that comes once in four years, and to some once in a lifetime. There were youngsters battling for a place, and let me say here that one of them made it! It was pure grit, determination and timing that got him his coveted place on the team. There were two others just as determined and just as good that did not make the team, but they will be back four years hence, of that I am sure. To a youngster shooter, four years means nothing, but to an old shooter—the words of a Chinese philosopher ring true: "It is later than you think."

Rangemaster is Reg. U. S. Pat. Off. by Remington Arms Company, Inc., Bridgeport 2, Connecticut.

NOTE TO BIG BORE SHOOTERS

Watch for the announcement of Remington's two new bolt action center fire rifles, the Models 721 and 722. They incorporate an entirely new principle of bolt design, besides many other new improvements and refinements. Calibers include 30-06 Springfield, 270 Win., 300 H. & H. Magnum, 300 Sav. and 257 Roberts. Biggest news of all is the surprisingly moderate price.

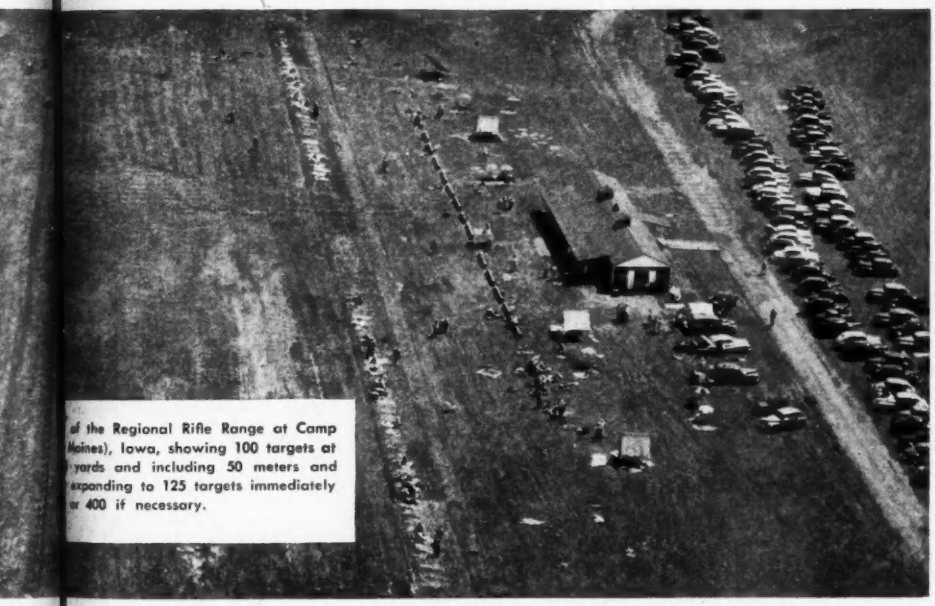
WHY GUN BUGS GET GRAY . . .

Reton News

WEATHER:
LOOK FOR COOL SHOOTERS
MAKING HOT SCORES

EPORT, EPTEMBER, 1948 — First Class Reading Matter for Rifle Shooters

IOA SHOOTERS ENJOY ONE OF NION'S FINEST RIFLE RANGES



of the Regional Rifle Range at Camp Moines), Iowa, showing 100 targets at yards and including 50 meters and expanding to 125 targets immediately or 400 if necessary.

"TALL CORN" STATE PROVIDES FOR FUTURE EXPANSION OF SHOOTING

Bridgeport, Connecticut, Sept. What this country needs are more and better rifle ranges. It is hoped that the various state authorities will set up a model small bore rifle and pistol range for the benefit of shooters. At these ranges, rifle clubs would schedule shoots to be held under their auspices, and State and Regional Matches would also be held.

At Des Moines, Iowa, there is such a range. The project was the result of action by shooting-minded state officials, backed by shooting enthusiasts of Des Moines.

On this new range in June, the Mid-West Regional Matches were held. Two years ago the range did not exist. It is located at Camp Dodge, a large training camp which includes everything that is necessary. As a matter of fact, there are sufficient facilities at Camp Dodge to hold the National Small Bore Rifle and Pistol Matches on the same basis as they have been held at Camp Perry.

The state of Iowa and its shooters are to be congratulated on having a progressive shooting - minded administration able to provide such wonderful facilities. It is recommended that other states look into the proposition with a view to establishing these much-needed ranges for our small bore shooters throughout the United States.

T TO IMPROVE YOUR RIGGER SQUEEZE

ou already shoot a Model angemaster, you probably t have any trouble with trigger squeeze at all. ou haven't a Model 37, ot borrow one and try it Then you'll see why the 37 trigger is called the cle" trigger, and why it elp you develop the fine trigger squeezing, which me secret of high scores. "Miracle" trigger has tely no perceptible back- motion of any sort! The is clean, crisp, lightning- Words can't tell you how t is—you have to try it lf. When you do, you're a big thrill!

SHOOTING'S FUN FOR EVERYONE -- MAKE IT A FAMILY AFFAIR

Bridgeport, Conn., Sept. 1948. Recently, a nearby rifle and pistol club reported an increase in attendance, not only at matches but at regular club practice sessions. They attribute this new interest to shooters' families, who have decided to see why the head of the house found target shooting so much fun.

It didn't take much urging for the program committee to set up a few special events, some training courses for the wives, sons and daughters of member shooters. These activities caught on fast, and now the club has the enviable job of keeping a record "family" membership busy and happy.

A brief suggestion from the secretary to the effect that all

clubs should make it a point to invite the whole family for a "look-see," and gradually get them all interested might be rewarding. Why, one of the members even brought along his mother - in - law. Funny thing, she has turned out to be a regular hotshot in women's events!

retired as Chief Machinist's Mate to engage in his specialty of gunsmithing and handloading. He is survived by his father, Mr. Fred Smith, and by a son, J. Bushnell Smith, Jr., of Hartford, Connecticut.

Mr. Smith's death is a blow to his many friends in the shooting world, and a distinct loss to the game. Our deepest sympathy goes to the surviving members of his family.

MAJOR N. H. ROBERTS DIES

Ned Roberts is dead. The revered author, writer, experimenter, and gun enthusiast died quietly at his home in Goffstown, New Hampshire, on July 20. He would have celebrated his 82nd birthday on October 21.

Roberts was one of the famous 'old guard' —an intimate of Harry Pope, Adolph Niedner, Rowland, and the others. Although he was a muzzleloading fan, and active in the sport until the last, he had shot every modern American rifle and cartridge, and was extremely interested in all wildcats. He is best known for his interest in the .25 caliber, to which he clung for almost 50 years. A permanent memorial to his name is the .257 Roberts cartridge.

Back in 1909, Roberts and his Malden (Mass.) roommate, A. O. Niedner, working with Dr. F. W. Mann, began the development of the cartridge to be known for many years as the .25 Roberts and the .25 Griffin & Howe Roberts. Niedner made the original barrels, chambered for a necked-down 7 mm Mauser cartridge, having a long, sloping shoulder. More than 600 such barrels were produced in the following years. Then G&H modified this slightly on the shoulder, and produced an additional 200 barrels. In 1935, the shoulder was modified and placed on the commercial market by Remington and Winchester, bearing the .257 Roberts designation.

In the twilight years of his life, Major Roberts turned more and more toward the past, although his interest in modern guns never waned. His great book, *The Muzzle-Loading Cap Lock Rifle*, has become a classic on the early rifles and riflemen of our country. In that book, and in his many articles, has been preserved much of a bygone America which might have disappeared had it not been for his unfailing interest and energy in recording their story for the generations to come.

Major Roberts is survived by his wife, Ethel. They had celebrated their 55th wedding anniversary.—Philip B. Sharpe.

JUNIOR COMMITTEE APPOINTED

Dr. Emmett O. Swanson, NRA President, has recently appointed an eleven member standing committee on junior activities. The function of this committee will be to study the NRA program of junior rifle shooting, both as a self-contained unit and in its relation to other phases of the Association's activities, and make reports and recommendations to the Executive Committee whenever deemed advisable.

The members of the committee include four NRA Directors: As Chairman, J. Alvin Badeaux, Instructor of the Thibodeaux (La.) Junior Rifle Club; as Vice-Chairman, E. N. Littleton, Principal of the Bowling Green (Ohio) Junior High School; Fred C. Mills, National Director of Scouting Services for the Boy Scouts of America; and Lester A. Pope, Director of the Southern California Junior Rifle League.

Other committee members are: George A. Cooper, Director of Camp Eberhart and of the South Bend (Ind.) YMCA; William R. Donnem, Washington VFW Director of Markmanship and Instructor of Glendale Post VFW Junior Rifle Club of Seattle; Alfred Kamm, of the Wilmington (Del.) Boys' Club; R. J. Richardson, Assistant State 4-H Club Leader of Georgia; Nancy Lee Tafel, Instructor of Camp Appalachia, Kentucky; G. W. Thiessen, Monmouth (Ill.) College; Edna White, Instructor of Piscataqua Junior Rifle Club of Portsmouth, New Hampshire.

MEMBERS, DIRECTORS MEET

The Annual Meeting of Members of the National Rifle Association for the election of Directors and to conduct other business which may be properly presented from the floor, as provided in the by-laws, will be held in the Shoreham Hotel, Washington, D. C., on Tuesday, October 26, 1948 at 8:00 P. M. All NRA members have the privilege of the floor. The right to vote is limited to Life and Endowment Members, Benefactors and Patrons.

The Annual Meeting of the NRA Board of Directors will be held in the Shoreham Hotel, Washington, D. C., Friday, October 29, 1948 at 9:30 A. M., as provided in the by-laws of the Association. The purpose of this meeting is the election of officers for the ensuing year, and the consideration of such other business as may properly come before the board.

RULE INTERPRETATION

For the national good of the entire small bore shooting game and because of the increasing frequency with which small bore competitors are failing to comply with the rules governing the prone shooting position in competition the NRA has recently sent all of its Official Referees a bulletin bringing the much violated rule to their attention. The referees will now be on the lookout for all violations, and to cause as little embarrassment as possible on the questioned rule, it is again published here for the benefit of all tournament shooters.

The rule—"Prone—Body extended on the firing point, head towards target. Rifle supported by both hands and one shoulder only. No portion of the arms below the elbows shall rest upon the ground or any artificial support nor may any portion of the rifle or body rest against any artificial support. All parts of the rifle must be so positioned that the range officer can pass his hand from the rear of the gun between the lowest part of the rifle and the ground or ground cloth without touching the rifle."

GALLERY SCHEDULES

To announce the Registered *Gallery* Tournaments to be fired in the forthcoming Indoor Season, the NRA will follow the same plan used in publishing the schedule of registered Outdoor Rifle and Pistol Tournaments last spring. A copy of the schedule will be mailed to all competitors having either official or temporary classification, all NRA affiliated club secretaries, all Registered Tournament sponsors and, upon request, to all other NRA members.

The Tournament Schedule for the Indoor Season will list all Gallery Rifle and Pistol Tournaments approved by the National Rifle Association on or before November 1, 1948. In order to have your tournament listed in this schedule, it is necessary to forward a copy of the Registration and Agreement form, in duplicate, along with duplicate copies of the proposed program, in draft form, so as to reach the National Rifle Association on or before November 1, 1948. The list will be mailed on or about December 1, 1948.

By receiving the applications for registration and proposed programs, in draft form, this early in the season the National Rifle Association will have a better opportunity to clear all conflicting dates and the tournament sponsors will have the advantage of "advanced planning." Organizations planning to conduct tournaments during the Gallery Season are urged to call a meeting of their tournament committee so that this advanced planning may be started without delay.

To assist the registered tournament sponsors in preparing their programs the NRA is mailing a "suggested program outline" to all sponsors of registered tournaments held during the past season. This outline will assist the tournament officials in drawing up a program that will be easily understood by all competitors, and will contain all information required for registration purposes to protect the sponsors and competitors. The outlines and applications may be obtained by any organization upon request to the NRA.

After the schedule becomes available to tournament shooters, only Class B Tournaments will be carried in THE AMERICAN RIFLEMAN.

GALLERY LEAGUES

The National Rifle Association will again conduct the NRA Gallery League Championships for both Rifle and Pistol this winter. Entries may be made now through December 15th.

Three or more teams are all that is required to form a league. All of the teams may be from the same club (intra-club league) or the teams may come from several different clubs (inter-club league). Entries in the Gallery League Championships are open to all leagues made up of teams from NRA affiliated clubs. In special cases, where police or occupational groups are not eligible to affiliate with the NRA, entries will be accepted by arrangement, providing individual team members are members of the NRA.

The NRA provides trophies and medals for the State and National Gallery League Championship. Trophies and brassards are also awarded to the winning team in each league registered.

League Handbooks containing information on league organization, courses of fire, schedules, handicapping and league regulations will be furnished to any league or club secretary by the National Rifle Association on request.

CHECK THE COLLEGES

Many NRA members and chartered clubs are located in cities or towns with one or more colleges or universities. Most of these colleges have military or naval reserve training programs—and up-to-date rifle and pistol ranges. At the present time, over 150 colleges are affiliated with the NRA and par-

ticipate in the Association's special intercollegiate shooting program. Obviously, there are many schools not yet chartered in this fashion.

These colleges and universities offer a splendid opportunity. Contact the college authorities, the military or athletic departments, urging participation in this program. Offer your help. Contacts of this type usually produce mutual benefits—needed aid and advice for the college shooters, more competition and perhaps the use of a fine range for the senior club.

Even if no shooting program exists at the schools at present, why not urge the formation of a rifle club and representative teams. The average college campus has space in some building where an up-to-date range can be installed—a range which can become a community shooting center. And don't overlook the college girls. Rifle shooting is one of the fastest growing and most popular sports among these young ladies. Get the idea across, then contact NRA Headquarters for information regarding college affiliation, the NRA Intercollegiate Program, and range construction. Incidentally, these college rifle clubs can receive valuable aid in the form of free issues of equipment from the Office of the Director of Civilian Marksmanship.

GEORGE MOSLEY

George Mosley, Small Bore Rifle Master and Life Member of the NRA, died of a heart attack while competing in the Central Pa. Rifle Club Registered Tournament at Harrisburg the weekend of July 25th.

Mr. Mosley was 52 years old and has been a well-known Pennsylvania shooter for the past 30 years.

"He's pouting because his secretary lost his BLACKINTON medal."

An adv't of V. H. BLACKINTON & CO., INC., Attleboro Falls, Mass.

COMING EVENTS

Regional Championship Tournaments (Class A) and State or Division Championships (Class B) only are listed below. All other N.R.A. Registered Tournaments are listed in a printed schedule that will be sent to any shooter on request. Send your request by letter or penny postcard to the National Rifle Association, Competitions Section, 1600 Rhode Island Avenue, N. W., Washington 6, D. C.

Tournaments requiring advance entries are indicated by (Adv.). Tournaments limiting the number of entries that can be accepted are indicated by (Ltd.).

(*) Tournaments marked in this manner are Gallery Tournaments that are scheduled prior to the time the Gallery Registered Tournament Schedule will be available for distribution.

Always send for a program in advance of any Registered Tournament you plan to attend. It is your assurance that you will know all of the details and all of the match conditions.

ALABAMA
October 16-17 (B)—Tenth Annual Alabama State Rifle Championship, Birmingham. C. C. Jones, 1139-16th Ave., So. **(Adv.-Ltd.)**

ARKANSAS
October 2-3 (B)—Sixth Annual Arkansas State Rifle Association Small Bore Rifle, Camp Robinson. M. F. Fiske, 212 East 17th St., North Little Rock. **(Adv.-Ltd.)**

CALIFORNIA
October 15-16-17 (A)—Pacific Coast Pistol Regional, San Francisco. E. J. Dutil, 324-16th Ave.
November 13-14 (B)—Pacific States Fall Round-up Small Bore Championship, Monterey Park, Gladys Rising, 600 North Mayo Ave.., Compton.

COLORADO
September 11-12 (B)—Rifle Tournament, Denver. L. F. Markle, 1006 Olive Street.
September 17-18-19 (B)—Pistol Tournament, Denver. L. F. Markle 1006 Olive Street.

CONNECTICUT
October 2-3 (B)—Connecticut Valley Pistol Championship, Rocky Hill. G. G. Ledder, P. O. Box 19. **(Adv.-Ltd.)**

DISTRICT OF COLUMBIA
September 18-19 (B)—Fourth Annual Pistol Tournament. U. S. Park Police Hq. Interior Building, Washington.
October 9-10 (B)—District of Columbia Pistol and Revolver Championship. A. M. Guelig, 1723 Capitol Ave., N.E., Washington, D. C. **(Adv.-Ltd.)**

FLORIDA
October 16-17 (B)—Florida State Pistol Championship, Clearwater. C. A. Brown, P.O. Box 253, Tampa.

ILLINOIS
September 12 (B)—Illinois State Rifle Association Small Bore Championships, Aurora. Michael Gawron, 2814 N. Christiana Ave., Chicago.
October 3 (B)—Illinois State Pistol Matches, Bensenville. Michael Gawron, 2814 N. Christiana Avenue, Chicago. **(Adv.-Ltd.)**
September 19 (B)—Indiana Small Bore Rifle Championship, Michigan City. Wavnelia Heise, 316 Warren Bldg.

INDIANA
September 12 (B)—Indiana State Pistol Championship, Bristol. Garnette Horner, 135 South Scott Street, South Bend.

IOWA
September 18-19 (B)—Iowa State Rifle Association Class B Small Bore, Des Moines. Des Moines Rifle and Revolver Club, Box 1395.
September 26 (B)—Iowa State .30 Caliber Championships, Wilton Junction, Ruth Maurer.

MARYLAND
September 19 (B)—Maryland State Small Bore Tournament, Randallstown. E. W. Stockhausen, 4614 Marble Hall Road, Baltimore. **(Adv.-Ltd.)**

MICHIGAN
September 5-6 (B)—Michigan State Pistol Championship, Ann Arbor. Lt. H. G. Schulpe, Ann Arbor Police Department. **(Adv.-Ltd.)**
October 2-3 (B)—39th Annual Michigan State .30 Caliber Rifle Matches. Camp Grayling. Terry J. Hayes, 246 Quimby Street, N.E., Grand Rapids.
October 9-10 (B)—Class B Pistol Tournament, Milford. Lewis C. Sanderson, 3075 Hickory Ridge Road, R. R. #4.

MINNESOTA
September 12 (B)—Minnesota State Championship Outdoor Pistol Tournament, St. Paul. M. P. Marston, 224 Harford Ave.

NEBRASKA
September 5 (B)—Nebraska State Pistol Tournament, Lincoln. H. H. Buis, 1312 N. 35th St., Omaha. **(Adv.-Ltd.)**
September 12 (B)—Nebraska State Pistol Championship, Grand Island. H. H. Buis, 1312 N. 35th Street, Omaha.

NEW JERSEY
September 11-12 (B)—Tenth Annual New Jersey Pistol Championship, South River. Ralph R. Viscosi, 48 Webster Avenue, Paterson.
(*) November 20-21 (C)—Second Annual Big Oak Gallery Championship, Millville, Merrill S. Cottrell, 902 Buck Street.

NEW MEXICO
September 19 (B)—New Mexico State Small Bore Rifle, Cimarron. Wanna Weaver, Box 395.

NEW YORK
September 4-5 (A)—Northeastern Pistol Regional, Poughkeepsie. Martha W. Strahan, 30 Arnold Blvd. **(Adv.-Ltd.)**

OHIO
September 18-19 (B)—20th Annual Ohio Pistol Championships Columbus. Cpl. A. L. Schmieg, 1117 E. Broad Street. **(Adv.)**
October 9-10 (B)—Ohio State Outdoor Team Matches, Mt. Gilead. John R. Lang, 3498 Meadow Avenue, Cincinnati. **(Adv.)**

OKLAHOMA
September 11-12 (B)—Oklahoma State Small Bore Championships, Tulsa. Ernest M. Fuller, 207 South Toledo. **(Adv.-Ltd.)**
October 23-24 (B)—Oil Capitol Fall Small Bore Tournament, Tulsa. Don P. Young, 216 East Archer. **(Adv.)**

PENNSYLVANIA
September 25-26 (B)—Pennsylvania State Pistol Championship, Harrisburg. W. K. Van Horn, c/o A-MP, 323 South Cameron Street. **(Adv.-Ltd.)**

TENNESSEE
September 4-5 (A)—Southeastern Regional Rifle Tournament, Knoxville. A. W. Nine, 104 Underwood Place.

TEXAS
October 9-10 (B)—Ada Zilker Robinson Match, Austin. Joe B. Taylor, 1204 W. 10th Street.

VERMONT
September 11-12 (B)—Vermont State Small Bore Tournament, Woodstock. Forrest Quinn.

WEST VIRGINIA
September 5-6 (B)—Eleventh Annual Mountain State Pistol, Parkersburg. R. A. Simpson. 212 W. 10th St.

STOLEN GUNS

One .30-06 Springfield, as issued. Serial No. 1441536. G. J. Eppright, Maynar, Texas.

One .30-06 Springfield, Weaver K25 scope, Echo mount, cheek pad in right side of stock. Serial No. 4007252. Capt. John J. Bily, Headquarters Air Weather Service, Gravely Point, Washington, D. C.

One Model 12 Winchester pump gun, #464415. Clifford A. Dunn, Box 431, Klamath Falls, Ore.

One Model 31 Remington pump gun, TC #92926. Clifford A. Dunn, Box 431, Klamath Falls, Ore.

One L. C. Smith field grade double barrel 20 gauge shot gun, #E127893. Re-stocked with Circassian walnut, knot on stock 3" in diameter. Clifford A. Dunn, Box 431, Klamath Falls, Ore.

One 30-30 Savage rifle, #281469. Clifford A. Dunn, Box 431, Klamath Falls, Ore.

One Colt Woodsman, #151978. James Radford, 216 E. Miner Ave., Stockton 2, Calif.

One Enfield (Eddystone) .30-06, #1224837. Unblued, Bishop stock, Weaver 440, Q mounts. 1-Winchester model 70, .30-06, #72683, Redfield rear sight, checkered stock. 1 Springfield (R.I.A.) .30-06 Bull Gun, #289704, 1" at muzzle, 24" bbl., target stock, Globe front, Red. rear. 1 Winchester High-Side .218 BEE, no record of serial. 1 Winchester model 75 target rifle, no record of serial no. 1 Stevens single shot #44, .22 cal., no record of serial no., original stock, laminated forearm, heavy bbl. 1 .45 Colt Automatic, no record of serial no., cracked grip on right side. 1 9 MM Luger, Serial No. barrel and receiver 2461, Serial No. lower frame 7493. Diamond shaped inlay with swastika on left side grip, just blued. William Gilson, R. R. #2, Box 109, Napoleon, Ohio.

DOPE BAG

Conducted by Major General J. S. Hatcher

Edwards Brown, Jr. A. H. Barr J. S. Rose M. D. Waite

Hi-Standard Model G .380 · More Colt History · Wanted: Identification of Pistol · Loads for Jap Revolver · Unique Luger Safety Device · Reheat-treated Springfield · Question on the German K-43 · Custom Loads · New 8 MM. Gas Check Bullets · Flobert Shot Cartridges · German Wooden Bullet · Mashburn Wildcat M2 Cartridge · Lead Wire for Bullet Cores · Decapping Crimped-in Primers.

HI-STANDARD MODEL G .380

The only gun now being made in the U. S. for the efficient .380 ACP (or 9 mm. Short) is the Hi-Standard Model G.

This is a semiautomatic target pistol, much resembling the well-known Hi-Standard Model D .22 in general appearance. An innovation is the quick detachable barrel. By pressing upward on a catch just forward of the trigger guard, the barrel can be slid forward off the frame; but it is necessary to remove the magazine first. The gun weighs 2 pounds, 7 ounces, and holds 6 shots in the magazine. There is an outside hammer and a thumb safety. The barrel is 5 inches long

Hi-Standard Model G .380

The fixed sights are 7½ inches apart, the front sight having a serrated rear slope to give a black silhouette in any light, and the rear sight has a non-reflecting velvet finish.

The gun is handsomely finished in two-tone blue, glossy on sides of frame and on the barrel, and dull, or non-reflecting, finish on top and rear surfaces, also on front of the grip.

This gun has shown excellent target accuracy in our tests.—J. S. H.

LOADS FOR JAP REVOLVER

Here's how to get ammunition for the Jap service revolver without too much trouble. Take .38 Special cases and put them in a lathe and trim them to the right length, then reverse them and take a very thin slice off the underside of the rim so as to reduce the thickness sufficiently to let the cases work through the gun.

I loaded some cases trimmed in this manner with 158-grain .38 Special bullets instead of the regular load for the .38 Smith & Wesson cartridge. The gun works very well with this load, and accuracy was good too.—R. A. Wardrop, Shamokin, Pa.

MORE COLT HISTORY

When, and on what model, was the rampant Colt first stamped on Colt firearms? When was the inscription 'United States Property' first stamped on issue firearms sold by the Colt firm to the U. S. Government?—Stanley L. Robinson, Barre, Vermont.

Answer: We are told by the Colt Manufacturing Co. that the rampant Colt was first used on the single-action Army Revolver and probably first appeared in the late 1870's. The inscription 'United States Property' was rolled on the butt of the New Army Model in the early 1890's and that may well have been the first use of this marking.

Mr. R. E. Courtney, of the Colt's Manufacturing Co., says though there is no documentary proof of these statements, he believes they are accurate.—M. D. W.

WANTED: IDENTIFICATION OF PISTOL

These photographs picture an unusual automatic pistol I recently acquired.

Weight, unloaded, is 3 pounds, 14 ounces. Caliber is 9 mm. (Glisenti, I presume). Barrel length is 6 inches, with 6 lands and grooves and a right-hand twist. Length overall is 10½ inches. Left side of receiver is marked "Fabrica Nazionale D'Armi, Brescia"; right side is stamped "Brevetti Giulio Sosso." The serial number (4) is stamped on the right side of the butt, and does not appear on any other parts. On the left side of the receiver, below the printing, appear the proofmarks of the Gardone branch of the Brescia Arsenal, followed by the smokeless-powder proofmark and the year 1942 in small numerals. The heavy gold inlay on the left side is the Italian crown over what I take to be the monogram of the original owner. Action is locked breech, barrel travel is .25 inch. The sliding collar over the barrel unlocks the barrel from slide by camming up a heavy member placed under the barrel in the fore part of the receiver. This member has slanting grooves milled in it similar to the barrel of the Webley .455 auto.

The clip is the oddest feature, being long and thick enough to contain 22 rounds, fed by an endless-chain arrangement of links, and indexed by the pawl on the front end of the bell-crank arrangement in the upper right part of the receiver.

Can readers give information about this pistol?

The unidentified pistol dismantled

The story told me when I got the pistol is that Giulio Sosso, who was Chief Armorer at Brescia, made up only five of these guns, Victor Emanuel getting No. 1, Mussolini No. 2, the Field Marshal No. 3, and the Grand Admiral No. 4. The whereabouts of No. 5 is unknown. The back strap is cut for a stock and the gun has a tangent sight, marked from 100 to 400 meters. From the sturdiness of the parts, I believe the arm would be safe with Parabellum ammunition.

I would appreciate information from any reader who can give it to me.—A. G. Stoltz, Bucyrus, Ohio.

UNIQUE LUGER SAFETY DEVICE

We have acquired a Luger pistol that has an unusual feature, the first we have seen of the type. Mounted in the slide directly above the sear is a flat spring with a pin in one end which projects down through a hole in the slide into a matching hole in the sear. When the side plate (containing the connecting bar between the trigger and sear) is removed, it allows the pin, under spring tension, to lock the sear and prevent any possible discharge. As the side plate is replaced, it cams the spring upward and out of engagement with the sear. Was this primarily a measure to prevent accidental discharge of the gun while stripping? Is it common?

Removal of side plate allows unique Luger safety to lock sear and prevent accidental discharge

We have had a number of Lugers and have seen many others, but this is the first of the kind we have noted. It is the standard army (9 mm., 3⅝ inch barrel) type in other respects.—T. O. McCool, Henryville, Pa.

Answer: This is the first time we have seen such a device on the Luger pistol. We have heard from German officers that numerous accidents have occurred while stripping the Luger from the discharge of a cartridge accidentally left in the barrel of the gun. This device would prevent such an accident.—J. S. H.

REHEAT-TREATED SPRINGFIELD

I bought a Springfield .30-'06 a few weeks ago from a sporting goods store. I have invested about $81.65 changing it into a good deer rifle, but now I learn the metal in the breech is soft and I stand a chance of hav-

ing it blow up. The serial number is 209,524. A gunsmith drilled three holes in the breach for my scope mount and says the metal is very soft. People at the store I bought it from claim the rifles have all been reheat-treated. Is it safe?

Answer: Your rifle is one of those low numbered Springfields below serial No. 800,000 which are generally unsatisfactory; there have been occasional blow-ups with guns of this series.

The Government investigated the feasibility of reheat-treating these guns, and Springfield Armory, after a long series of experiments, reported that there is no known method of improving them over their original condition.

As originally made, the blow-ups in these guns were very rare—about one in 20,000 or something of the kind. But after they have been reheat-treated by some individual according to his own ideas, there is no knowing just what the characteristics of the metal are. The best we could do is to class your rifle as 'doubtful.'—J. S. H.

QUESTION ON THE GERMAN K-43

I put an empty 8 mm. Mauser cartridge case in the chamber of a Kar 43 semiautomatic rifle I recently bought, released the bolt and let it go fully home, then ejected the case from the gun without pressing the trigger. There was indentation on the primer, apparently caused entirely by the forward inertia of the firing pin.

I tried this with two empty primed cases, putting each one in the gun and releasing the bolt three times. They did not go off. I then put them in another rifle and pressed the trigger; both went off.

Is this condition present in all K-43s or just a few? Do you think this particular K-43 is safe to use?—RUDOLF SCHNACKENBERG, Shrub Oak, New York.

Answer: All K-43s will dent the primer on closing the bolt. The dent looks almost deep enough to set off a very sensitive primer but I have never known such an occurrence with the Kar-43.

The Garand rifle causes a similar dent, but not as deep, on the primer when the bolt closes. I would consider your Kar-43 safe to use.—J. S. H.

CUSTOM LOADS

There are now quite a few competent handloaders who can supply accurate custom loads for most popular calibers. Among these is Leon P. Fisher, Presidio, Texas. We have tried and found quite accurate his 8 mm. and .30-'06 loads.

The 8 mm. is loaded with 44.5 and 47.0 grains of No. 4895 powder and 170-grain Speer bullets. With a regular military rifle, 10 shots grouped in 4.07 inches at 200 yards.

In .30-'06 caliber the 180-grain Remington mushroom bullet is loaded with 56.0 grains of No. 4350 powder. This is a fine, powerful load, and it gave exceptionally small groups in one of our match rifles. When zeroed on aim at 200 yards the impact was 1.95 inches high at 100 yards and 9.9 inches low at 300 yards.—A. H. B.

NEW 8 MM. GAS CHECK BULLETS

R. W. MacWilliams, 519 High St., Clinton, Mass., sent us some of the new 8 mm. gas-check bullets which he makes. This is another of the well-known designs by H. Guy Loverin. The new bullet is the Modern Bond No. 323876 weighing 173 grains. Similar in design to other Loverin bullets, it has five lubricating grooves and one crimping groove.

Mr. MacWilliams, who took over Loverin's bullet-making business, obtained fine accuracy using 21 grains of No. 4198 and 26 grains of No. 3031. In one of our 8 mm. rifles best performance was obtained with 17 and 18 grains of No. 4198 and 24 grains of No. 3031. We had several 10-shot groups of less than 1½ inches at 100 yards. These bullets are available in both solid and hollow-point design.—A. H. B.

FLOBERT SHOT CARTRIDGES

I would like some information on a gun I have which is smooth bore and looks like a .410 gauge, but it is a rim fire. It has German proofmarks and the word Flobert together with the name Simson & Sons, Suhl.—FRANK ROACH, New Bedford, Mass.

Answer: About 1845 Flobert of Paris patented the rim-fire cartridge which was used in Flobert rifles. About 1854 it was introduced in this country by Smith & Wesson for use in their cartridge revolvers.

The word Flobert on German guns usually indicates rim fire. Besides the rifle cartridges there has for many years been a line of Flobert or rim-fire shotgun shells manufactured in Germany. These are small caliber shells of 6 mm., 7 mm., and 9 mm. diameters. At one time they were much used by explorers and others for shooting small birds which were to be collected as specimens and mounted. These small cartridges were used to avoid, as much as possible, damage to the skin.—J. S. H.

GERMAN WOODEN BULLET

I have some 7.92 mm. Mauser ammunition loaded with red wooden bullets. Can you tell me what this kind of ammunition is used for?—RUDOLPH SCHNACKENBERG, Shrub Oak, N. Y.

Answer: The ammunition is called *Platz Patrone* by the Germans. The cartridges are blanks which are used for maneuvers, in machine guns as well as in rifles. The special machine gun barrel for blanks had a tapered bore which served to break up the hollow wooden blank cartridge bullet and also build up pressure to operate the mechanism of the gun.

Our landings on D-day caught the Germans by surprise and our troops ran into one division that was using these red bullets in exercises. Hence, the rumor arose that they were fired at the American troops in combat. This was only a chance happening due to the fact that the Germans were caught off-guard.—J. S. H.

MASHBURN WILDCAT M2 CARTRIDGE

Essentially the Mashburn .22-250-M2 is the popular .22-250 varmint cartridge expanded to hold about as much powder as the .220 Swift. Also, the M2 cartridge has less body taper than the .22-250. For comparison, both the .220 Swift and M2 Mashburn hold 47.0 grains of No. 4320 powder, level to the case mouth, and the .22-250 holds 44.0 grains. Any loading data for the .220 applies also to the M2.

Some good loads have been worked up for the M2 Mashburn cartridge, which seems to be quite flexible and cases do not require trimming. Some of the best loads used so far are as follows:

Bullett	*Weight of Powder*	
41-gr. Sisk	38.0 of No. 3031	Accurate
41-gr. Sisk	40.0 of No. 3031	H'y Load
47-gr. S-S	38.0 of No. 3031	Accurate
50-gr. Moffat .223 in.	34.0 of No. 4895	Accurate
50-gr. Sisk .223 in.	40.0 of No. 4350	Accurate
55-gr. Sisk Nied. .223 in.	39.0 of No. 4895	Accurate
55-gr. Sisk Nied. .223 in.	39.0 of No. 4320	Accurate

The Mashburn Arms Co. did a nice job of fitting a heavy stainless steel barrel to an Enfield action. A complete action job included one of the popular Superior Triggers, speed action, and straightened trigger guard.

Strangely enough, this barrel with 14-inch twist and .2237-inch groove diameter usually prefers the .223-inch bullets and does best with the thin-jacketed Sisk-Niedner bullets designed for lower velocity. One inch or smaller groups have been made with all loads listed as 'accurate.' Drop figures indicate a flat trajectory over 300 yards.

Impacts when using a target scope were as follows:

	100 Yds.	*200 Yds.*	*300 Yds.*
55-gr. 39.0 No. 4320—	plus 0.5 in.	minus 1.0 in.	minus 5.0 in.
55-gr. 39.0 No. 4895—	plus 1.5 in.	on aim	minus 3.5 in.

The heaviest safe load tried was 42.5 grains of No. 4895 and 55-grain Sisk-Niedner bullet.—A. H. B.

LEAD WIRE FOR BULLET CORES

In Trade Dope in July, we mentioned that the Rochester Lead Works, Rochester, N. Y., now has 3/16-inch diameter lead wire available for bullet making. Since then we have ordered the special .20-inch diameter wire for making .25 caliber bullets and we now know that the wire is a good size for .22 caliber bullets also. We recommend this diameter wire and can verify the uniformity claimed by the manufacturer.

Recently a variation was discovered of as much as eight grains among 95-grain .25 caliber bullets made from lead wire of unknown origin. This variation was due to diameter differences of individual slugs and was sixteen times greater than that obtained with the .20-inch diameter wire after Mr. W. H. Ewell, President of the Rochester Lead works, suggested that the cutting blade be made as thin as possible and that the cutting blow be quick and sharp. With the revamped cutter blade, we are now getting 95-grain bullets which vary no more than .4 grain for 99 out of the first 100 bullets weighed.—A. H. B.

Carl Pippert of Washington, D. C., wanted to try his hand at making a Kentucky rifle by the old-time methods. This rifle is the result. Pippert used an old barrel, lock, and part of a patchbox. The rest of the rifle was entirely made by hand, of new materials, in his own shop. Time consumed was approximately 100 working hours. Rifle was made for collector H. W. Morgan of Taftville, Vermont

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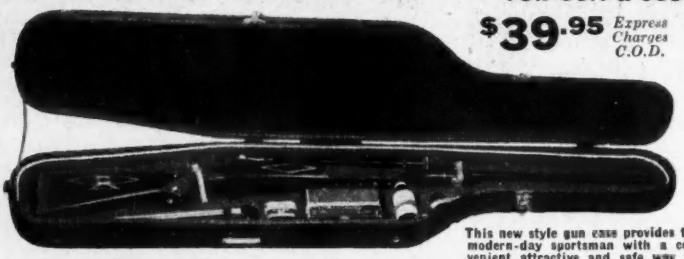

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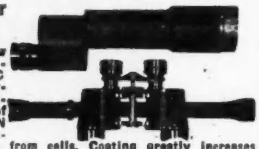

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DECAPPING CRIMPED-IN PRIMERS

Decapping crimped-in primers is a problem for handloaders because the average commercial decapping punch just does not have the strength to do the job continuously.

I solved the problem by the use of a carpenter's nail-set purchased at the 5 & 10 cent store. First I drew the temper, then filed the end like a decapping punch, then retempered. I have a hardwood block with a shallow socket to fit the case and a small hole bored all the way through the block to permit the primer to drop out. It is a simple matter to find the flash hole with the punch and a few light taps with a hammer knocks the primer out. If care is used to keep the punch and case in line, and held firmly on the block, very few punches will be broken.

Being fussy about my cases, I follow decapping with three more operations: (1) Run a small penknife blade lightly around the inside of the pocket to take off the rough crimped edge, (2) true the pocket with a reamer, (3) chamfer the edge of the pocket either with a small penknife blade or a touch of a carborundum ball in a hand drill. (Carborundum balls mounted on a drill stem can be bought in all hardware stores.)

Seating the new primer in a Government case which has been prepared in this manner can be done easily and accurately. After each firing, I clean the cinder out of the bottom of the pocket with the edge of a small screwdriver.—FRANK F. REYNOLDS, Alexandria, Va.

HOW TO USE CARBON TETRACHLORIDE

The warning about the health hazard in using carbon tetrachloride (Dope Bag, July 1948) was probably based on its proposed use as a coolant and cutting compound. The average production machine has five to ten gallons in a tank which is pumped onto the work. This use definitely constitutes a health hazard.

However, there is no objection to its occasional use for tapping, the idea being to have an oil can full of carbon tet and squirt a small quantity on the tap as you cut the thread. The Experimental Shop at Boeing Aircraft uses this trick all the time, and it is no way constitutes a health hazard, even in a small room.—S/SGT. RUSSELL M. HOBART, Vallejo, Calif.

WARNING ON PACIFIC SCALE ATTACHMENT

The 'anti-bobble' attachment shown on page 64 of the RIFLEMAN, July, can cause inaccuracy in weighing unless certain provisions are made. The accuracy of the scale will be destroyed unless the plunger is fixed to the balance beam so that it cannot be moved back and forth, which would be equivalent to moving the calibrating lugs at random. Also, lack of alignment due to movement of the plunger or to non-level placement of the scale would cause the piston to rub on the inside of the case, thus preventing pointer motion.—ROBERT D. RICE, Coraopolis, Pa.

Note: Mr. Charles E. Moore, who sent us the 'anti-bobble' suggestion, says the gadget had been successfully used by him for some time.—A. H. B.

COLD PROCESS BLUING

The cold rusting method of bluing guns gives a very durable coating, and no process gives a finer, more even blue to blue-black

Rifle by CHAS. E. SUTFIN of Sacramento, California. Small ring commercial Mauser action, 22 inch Johnson .270 barrel (Sutfin specifications). Equipped with BUEHLER MOUNT AND SAFETY.

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finish. The main objection to its use is the time required to do the job.

The regular procedure after polishing is to degrease the parts to be blued by boiling them in lye water (about one heaping tablespoon of lye to each gallon of water), then boiling in clear water and cooling. Apply the bluing solution, using a clean swab, and let stand to rust for about twelve hours at room temperature. Scour off excess rust with steel wool and scratch brush. Boil for about five minutes in clear water. Dry and cool, then repeat the same process as many times as is required for a good deep blue. When finished, wipe the parts with linseed oil, and follow with a light oil after cooling.

To speed up the rusting process Charles Kingsley, Bethpage, N. Y., who still prefers this bluing method to any other, suggests using the bathroom as a steam cabinet. Mr. Kingsley makes the following suggestions: "Close all bathroom windows and doors, have plenty of hot water in the tank, turn on the shower or hot water spigot, and in the wintertime have a good hot fire going. As many as four passes and a complete bluing job have been done in one 48-hour period."

The Zischang bluing or browning solution works fine on soft steel barrels. Mix, in a glazed stone jar *outdoors*, 5 ounces of nitric acid and 4 ounces of muriatic acid. Let the mixture cool—it gets very hot—for a few minutes. Then add 1 ounce of common wire nails. Avoid breathing the heavy vapor given off as the iron nails dissolve. To this concoction add 60 ounces of distilled water. Another common formula consists of the following ingredients:

Tincture of iron	6 oz.
Sweet spirits nitre	6 oz.
Nitric acid	11 oz.
Corrosive sublimate	1 oz.
Copper sulphate	½ oz.
Distilled water	2 qts.

Mix in the order given and apply according to procedure already given. These cold rusting solutions are listed in *Modern Gunsmithing* by Clyde Baker.—A. H. B.

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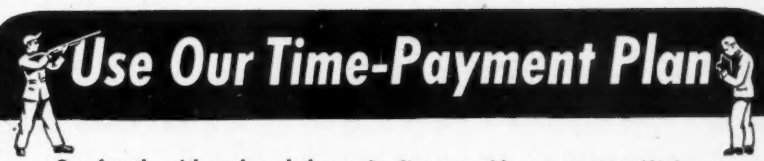
Imperial cleaning and rust-proofing compound is a product of the Imperial Products Company, Alton, Illinois. It is a petroleum-base product which the makers claim exceeds Army specifications for this type of preservative.

Imperial has been used on our guns to remove powder fouling and for short term protection against rust under normal conditions.



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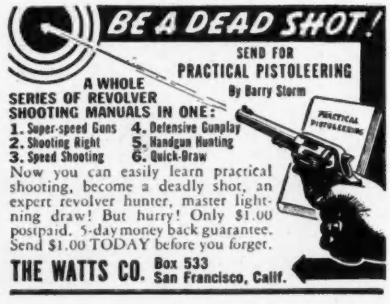

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We find it quite safe and satisfactory, except for removing the corrosive chlorate primer residue. But then no solvent is safe to use for removal of the corrosive residue except polarized oil and water combinations such as Curran's .30-'06 cleaner.

Imperial is a rather thin liquid compound not suitable for long term rust-proofing, hence in the severe brine test rust advanced rapidly on and after the third day of the test.—A. H. B.

MUZZLE STEADY RESTS

For bench-rest group shooting many types of rifle barrel or forearm supports have been designed. Some shooters prefer a small sandbag to rest the forearm on and a similar support for the toe of the stock.

One type of barrel rest that has been used for years is called a muzzle clamp, having a base which rests on the shooting bench or built-up platform. An aluminum alloy casting of this type is now being made and sold at $3.50 by Ted Foster, 40 Dubuque St., Manchester, N. H. It is called the Steady-Rest. This split-clamp type of rest can be used on any conventional barrel.

The Steady-Rest can be clamped to any exposed part of the barrel forward of the forearm. But usually there is one position for the rest on the barrel which will give the smallest groups. That spot must be located experimentally for each individual rifle. I have found the Steady-Rest quite practical for group shooting.

For sighting-in a hunting rifle a forearm support is still preferred, as a change in zero is frequently possible when moving from barrel to forearm support. This is true especially for light barrels or when using some kind of rest in hunting. For sighting-in the small adjustable bipod forearm rest covers the purpose well, either from prone or bench-rest position. A limited number of these handy rests are available at $5.00 each through J. C. Nix, 4416 P St., N. W., Washington, D. C.—A. H. B

ANOTHER GOOD SPOTTING SCOPE

Looking from the ocular end at the new 20X scope being sold by the maker, F. W. Ballantyne, P. O. Box 382, Point Pleasant, New York, the first 6½ inches appears to be one-half of a 7 x 50 binocular. The prisms, we understand, are regular 7 x 50 prisms. The objective was originally made for an Air Force instrument by Bausch & Lomb, and the scope is equipped with an orthoscopic eyepiece.

We have tested the scope and have found it to be very good in every respect. It was outstanding in regard to clearness and freedom from distortion near the edge of the field of view.

Other characteristics of the scope are:

Magnification (power)	19.3
Field of view (at 100 yards)	
10 feet	10½ inches
Unobstructed objective	68 mm.
Approximate diameter of exit pupil	3 mm.
Eye relief	15 mm.
Overall length (no caps)	15¼ inches
Weight	2 pounds, 5 ounces
Outside diameter	3⅛ inches

The scope is not equipped with dust caps but it should be no trick to fashion protective caps from rubber or metal. It sells directly from Ballantyne, for $50.00.—E. B.

(Continued on page 73)

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FALL AND WINTER 1948 CATALOG

227 W. WASHINGTON ST. • CHICAGO 6, ILL.

ESTABLISHED 1885

BROWNING AUTOMATIC SHOTGUNS

(See page 68 for "Sweet 16" Browning)

gian Browning Lightweight Model. 12 gauge only. 26, 28, 30 or 32 barrel lengths in cylinder, improved cylinder, modified or full chokes. te choice of barrel length and choke when ordering.

-2466 Plain barrel. Postpaid **$124.50**

-2467 Raised matted rib. Postpaid **137.00**

gian Browning Automatic. Made only in 12 and 16 gauges. All al lengths and chokes. State choice of barrel length and choke.

-2462 Without rib. Postpaid **$108.80**

-2463 With raised rib. Postpaid **121.30**

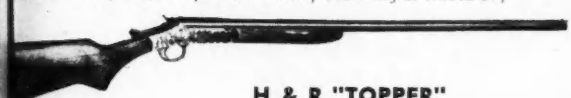
erican Browning Automatic Standard Grade made in 12, 16 or gauges. All barrel lengths. State choice of barrel length and choke.

-2460 Postpaid **$99.50**

erican Browning. Full Raised Matted Rib, same dimensions as above.

-2461 Postpaid **$114.50**

(Add $14.75 for Poly Choke on any Browning or Ithaca 37)



H & R "TOPPER"

Single Barrel Shotgun. American walnut stock and forearm. Case hard- frame, coil springs throughout. Positive automatic ejection. 30" l steel barrel. 12, 16, 20 and 410 gauge. State choice of gauge. ght about 6½ lbs. **DD-2580** Postpaid **$21.50**

MARLIN MODEL 90

r and Under Shotgun. Lengths, 26, 28 and 30 in. in 12 gauge. Top l modified bottom imp. cyl. in 26 in. length; top full, bottom fied in 28 in. and 30 in. lengths. Full pistol grip. Dimensions 14¼x ⅛ in. Weight about 7½ lbs.

-2480 Postpaid **$75.70**

Standard el H-D

y .22 Cal. Auto- Target Pistol. Has visible hammer, atic slide lock, ad- le rear sight and walnut grips. Medium barrel on heavy frame. Choice of or 4½" barrel. (State choice in order-

29 Postpaid **$51.17**

H & R "SPORTSMAN"

TARGET REVOLVER

Double action Model 999; chambered for nine .22 long rifle, long or short cartridges. Has 6" blued barrel with black top rib; Patridge sights, front adjustable for elevation, rear for windage. 11" overall, 3 to 4 lbs. trigger pull. No. 4 walnut grips.

DD-2340 Postpaid **$44.95**

.22 TARGET GUN

Back again! the H & R "922" target revolver. Whether it's for target practice or home and store protection, this great 22 revolver will meet your requirements 100%. Specifications: 9 shot; 6 in. barrel. Overall length 10½"; Weight 24 oz.; Blue finish; Fixed blade front sight; Shoots 22 short, long, or long rifle ammunition. Shipped express prepaid. (Also available with 2½ or 4" barrel. State choice.) **DD-2342** Postpaid..... **$24.75**

SEE ORDER COUPON ON PAGE 71

ITHACA MODEL-37 FEATHERLIGHT REPEATER

Quick takedown; short smooth forend stroke; shells fed in straight line into chamber; handy action release for removing shells; handy crossbolt safety; receiver with solid top sides for safety; bottom ejection. Any choke. 5-shot capacity. Full pistol grip with gripcap. Hand checkered stock and forend. Duck and pheasant scenes on both sides of receiver. 12, 16 and 20 gauge only. 12 gauge 26, 28 and 30 inches. 16 and 20 gauge: 26 and 28 inches. State choice of gauge, barrel length, choke. (All chokes available.)

DD-2660 Postpaid **$83.50**

Ithaca Model 37R Solid Rib Repeater. Same features as model 37 except solid raised rib. A true sighting plane. Same gauge and barrel length selection as above. State choice when ordering.

DD-2661 Postpaid **$98.50**

(See page 69 for Ithaca Pumps with interchangeable barrels. Immediate Delivery!)

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FINEST NEW GUNS!

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[A] **Boy's .22 Bolt Action, Single-Shot Rifle.** Simple but strong construction eliminates jamming and misfire. Safety device prevents accidental discharge. 20" blued barrel. Knife front sight, adjustable open rear sight. Automatic shell ejection. Walnut-finish military carbine style stock. Take down. Shoots .22 cal. short, long or long rifle cartridges. Length 35". Weight 4½ lbs.

C-2160 Postpaid **$10.95**

[B] **Remington 22 Pump Action Shotgun.** Specially designed by Routledge for "Moskeeto" trap shooting game. Shoots 14-22 L.R. shot shells. 24" barrel, 41" overall. Weight 6 lbs.

DD-2460 Postpaid **$49.25**
DD-9090 22 L.R. shot ctgs., per 50 **.79**
DD-1862 Moskeeto Targets, per 450 ..... **3.25**
DD-1860 Model 80 Moskeeto Trap. **15.50**

[C] **Marlin Model 80-DL.** 8 shot .22 caliber, clip magazine repeater. Bolt action. New positive safety. Improved "Speed Lock" giving more rapid ignition. Equipped with peep sight, ramp front sight and hood, swivels. 24" round-tapered blued-steel barrel, crowned muzzle, Ballard-type rifling, plated bolt assembly and trigger. Removable bolt, automatic side ejection, self-cocking action, take down. Shoots .22 caliber short, long and long-rifle cartridges—regular and high speed, without adjustment. Overall length: 42½". Weight about 6 lbs.

DD-2044 Postpaid **$22.90**

Marlin Model 81-DL. 25-shot .22 caliber, tubular magazine repeater. Bolt action. New one-piece buttstock with fluted comb and semi-beaver tail forearm, newly designed bolt action, new safety. 24" round tapered blued steel barrel, crowned muzzle. Peep sight, ramp front sight and hood swivels. Shoots .22 cal. short, long and long rifle; regular or high speed without adjustment. Magazine holds 25 short, 20 long, or 18 long rifle cartridges. Overall length 42½". Weight about 6½ lbs.

DD-2046 Postpaid **$26.95**

[D] **Marlin Mod. 88-C Automatic Rifle.** New Model 22 cal. automatic Rifle. 15 shot tubular magazine. Shoots any 22 LR ctg. Safety button is placed on right side of receiver directly above trigger. Stock of American Black Walnut. 45" overall. Weighs 6¾ lbs.

DD-2051 Postpaid **$30.50**

[E] **Iver Johnson Champion.** A single barrel shotgun with genuine Black Walnut stock. Full Pistol Grip, newly designed forend. Frame and parts case-hardened. Entire gun beautifully finished. A high-quality, all-purpose gun with full choke and automatic ejector. 12 ga.: 28, 30, 32 inches: 16 ga.: 28, 30, 32 inches: 20 ga.: 28, 30 inches; 28 ga.: 26, 28 inches; .410 bore: 26, 28 inches. State choice when ordering.

DD-2620 Postpaid **$21.75**

[F] **L. C. Smith Field Grade.** The new and unique single sighting plane rib is centered between barrels. It is raised just high enough to give you one straight, clean sighting plane—from breech to muzzle. Improved cocking mechanism. Solid steel rotary bolt has tapered tongue which automatically takes up wear. Frame and barrel held together firmly. Fast, accurate action assured through sturdy locking mechanism. All stocks are of selected, seasoned walnut . . . beautiful and strong. Full pistol grip. Gauge: 12, 16 or 20. Barrels: 26, 28 or 30-inch Armour Steel (26": Improved Cylinder and Modified; 28" and 30": Modified and Full). State choice.

DD-2500 Postpaid **$96.10**

[G] **NEW RIFLESCOPES**

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DD-1249	Weaver	G6-6x with mounts. Postpaid.	**12.50**
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DD-8025	Bausch & Lomb 9x35 Zepyhr-Light ...	**155.00**
DD-8055	French 8x30 Prism Binoculars.....	**49.50**

[J] (Add 20% Excise Tax on all Binoculars)

DD-8007	Mossberg "Spotshot" Spotting Scope.	**22.30**
DD-8009	Mossberg Stand for "Spotshot".....	**9.95**
DD-8005	Argus Super Grade Spotting Scope..	**74.50**
DD-8006	Freeland Stand for Argus Scope....	**8.50**
DD-8008	Leather Case for Argus Scope.....	**15.00**
DD-8010	Bausch & Lomb Prismatic Spotting Scope with retractable sun shade. 20x with 60mm objective lens. Postpaid.....	**95.00**

[K] **DD-1330** Aero-Dyne Poly choke for any single barrel, pump or automatic shotgun..... **$14.75**
DD-1330V New Ventilated Poly Choke..... **$18.75**

[L] **Army Air Corps Type Sun Glasses.** Brand new 24K. gold plated frames with pyralin. Sweat Bar. Adjustable nose pads. Optically ground lenses. Complete with leatherette case.

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Ray-Ban Skeet Glass.
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Contained in this great list of guaranteed guns are the **BEST BARGAINS OFFERED BY KLEIN'S SPORTING GOODS SINCE 1885.** Many of them are priced below pre-war prices! Ammunition is available at Klein's for practically all guns listed. If you do not see the gun of your choice in this list, write KSG at once. It is not necessary to trade guns at Klein's. You can purchase any guns in this list in any one of five ways: Cash; C.O.D.; 10-DAY FREE EXAMINATION; Monthly Payments; or on our Lay Away Plan. (Please give at least two choices, if possible, due to the great demand and continued scarcity of good guns.) We would appreciate the privilege of making close substitutions, subject to your approval.

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VALUES TO $60.00—ONLY $29.95

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RARE GUNS—PRICED RIGHT AT $34.95!

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GREAT GUNS! SPECIAL $39.95 GROUP

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Guaranteed used Double Barrel shotguns, made by Stevens, Springfield, Eastern Arms, Western Arms, Ranger and Western Field. Choice of 12, 16, 20 or 410 gauges in assorted barrel lengths. (State choice)

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DD-2708 Very good. Each.... **39.95**
DD-2709 Excellent. Each..... **44.95**

DOUBLE BARREL SHOTGUNS—$44.95 TO $54.95!

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DD-2710 Good condition. Each. **$44.95**
DD-2711 Very Good. Each.... **49.95**
DD-2712 Excellent. Each..... **54.95**

DOUBLE BARREL SHOTGUNS—$59.95 TO $79.95!

Guaranteed used Double Barrel shotguns, made by Fox, L. C. Smith, Ithaca. Choice of 12, 16, 20 and 410 gauges, assorted barrel lengths. (State choice)

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DD-2714 Very good. Each.... **69.95**
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DD-2730 Excellent. Each..... **89.95**

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Guaranteed used interchangeable extra barrels for Remington and American Browning automatic shotguns. Please give complete description of your gun. If possible, send complete gun to us for fitting the extra barrel at no extra charge. State choice of 12, 16, or 20 gauges, 26, 28 or 30 inch barrels.

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DD-2733 Excellent. Each..... **29.95**

NEW EXTRA BARRELS

For Remington or American Browning Automatic Shotguns.

DD-2960 State choice of gauge, etc. Postpaid **$38.30**

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Guaranteed used Bolt Action repeating shotguns, made by Stevens, Mossberg, etc. Choice of 12, 16, 20 or 410 gauges. (State choice)

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Guaranteed used bolt action 22 caliber Target Rifles, all with target sights, made by Winchester (Model 75T), Remington (Model 513 TR), Stevens (Model 416-2), etc. (State choice)

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D-74550 Stevens 416 22 Caliber; Lyman 10x Scope. Excellent. **$99.95**
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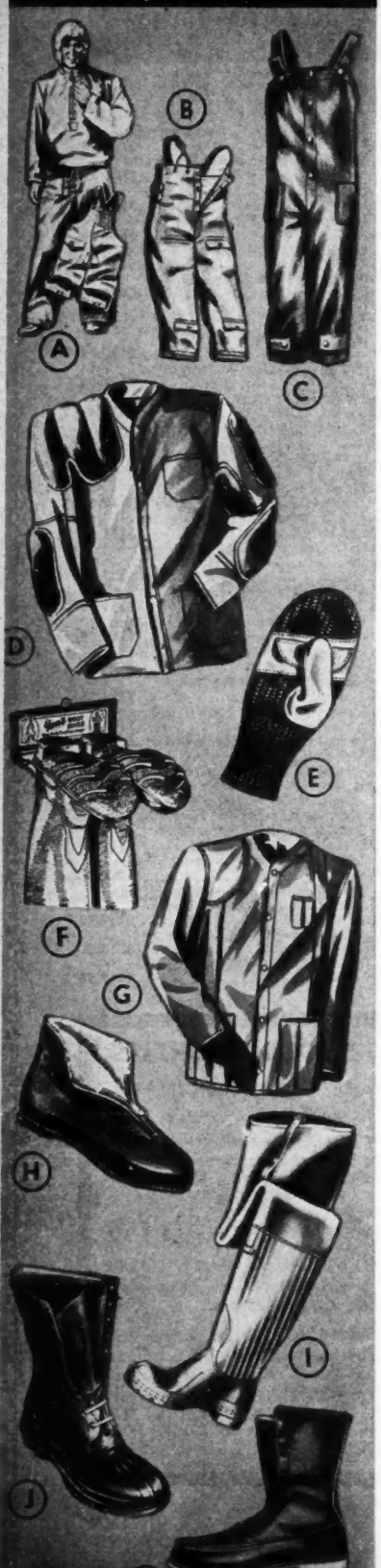

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DD-3700 State size.....**$1.19**
Same as DD3700 with horsehide palm.
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DD-3940 Pair .....
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RED HEAD "BONE DRY" HUNTING COAT

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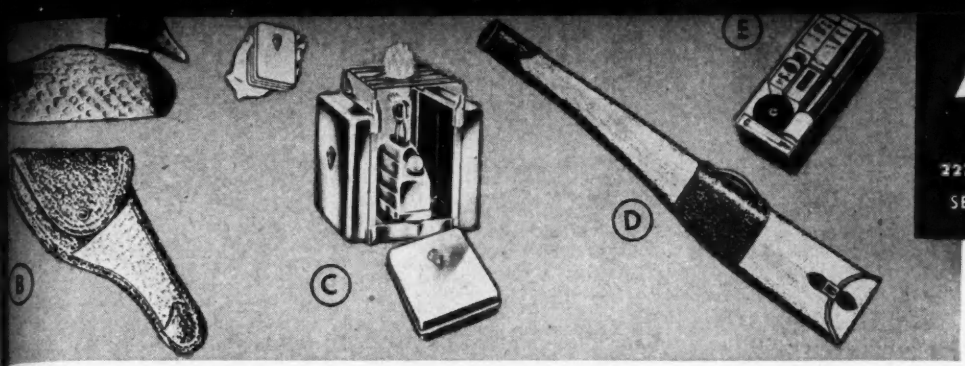
Postpaid. **$1.70**



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[A] Improved Molded Plastic Decoys, natural design and color. Waterproofed inside and out; will not list or tip; guaranteed to right themselves when thrown into the water. No balance weights needed! Lifelike glass eyes. Mallard only. (Packard 3 Drakes, 3 Hens to ½ Doz.)

DD-1460 Regular Price $12.00 per Dz.
KSG SPECIAL PRICE, per ½ Doz.....**$3.98**

DECOY ACCESSORIES

DD-1477 Cast Lead 4½ oz. Bottom weights, per dozen **$1.49**

DD-1476 Bell shaped anchor, 5 oz. Per dozen **$1.69**

OLT'S REGULAR DUCK CALL

The most popular ever sold for it's the "old reliable." Won't swell, shrink, dent or chip. Improved long distance volume, effectively true and clear.

DD-1490 Postpaid **$1.29**

Pres-to Oiler. Perfect oiler for guns, pistols, fishing reels and rods, knives, etc. Handy as a fountain pen, and just as easy to use. By depressing plunger point, it delivers 1/10 of a drop, or multiples, to the exact place you want it. The "snooping" metal point noses into out-of-the-way places that are so hard to reach with ordinary oilers. Transparent oil reservoir. Easily refillable with any grade of light machine oil desired.

DD-1558 Postpaid **$1.25**

Red Head Cheek Pad. For raising the comb of shotguns, or telescope sight equipped rifles. Padded. Fine mahogany calfskin.

DD-1347 Postpaid **$4.50**

[B] **Sheepskin Holster.** Made of genuine finest quality sheepskin. This closed top holster is heavily reinforced at necessary places for real protection. Strong snap fastener closes top. Leather loop on back for securing to belt. The binding is dark brown suede leather.

DD1055 (State exact description of gun.)....**$1.29**

Red Head Snap Holster. A strap and snap keeps pistol in holster. Made of heavy full grain cowhide, which is molded over actual size models of pistols for perfect fit. Brown. (State exact description of gun.)

DD-1053 For small and medium size guns..**$2.69**

DD-1054 For large size guns..... **2.98**

TAYKIT—THE FIRST REAL POCKET STOVE

[C] **Specifications and Features:** 1. Closed size 1⅞" x 4½" x 5"; 2. Made of gleaming buffed Monel (stainless steel), with solid brass fuel tank and burner. 3. Lights immediately, burns with a steady hot blue flame. 4. Single unit burner maintains pressurized blue flame without pumping, priming or other attention. 5. Strong, rattle-proof. Wear, rust, salt and acid resisting. 6. Monel case resists heat, remains cool so that stove can be handled comfortably while in use. 7. Burns more than 100 minutes with one filling of any type of gasoline. 8. It can be used outdoor or indoor. 9. TAYKIT is thoroughly tested and sold on an unconditional money back guarantee!

DD-1685 Postpaid anywhere in the U.S. With new Flame Control.....**$6.95**

Red Head Lace-on Pads. Finest quality cowhide. With grooved base of sponge rubber within pad. End laced through eyelets. State size of gun butt.

DD-1345 Postpaid **$1.60**

DD-1354 Split Cowhide Recoil Pad. Same type as above. Postpaid **85c**

[D] **Full Length Sheepskin Case.** Made from heavyweight hides with a smooth outside finish for longer wear and deep, natural fleece on the inside for keeping your gun safe from knocks and scratches. Full leather binding. Funnel opening. Leather handle. The action of the gun is protected by a large patch of leather. Muzzle protector has a lined bottom. For 37" to 52" (overall length) rifles and shotguns. State length wanted.

DD-1012 .....**$6.95**

DD-1013 Same but for rifles with 'scopes....**$9.95**

Leather Reinforced Canvas Case. Medium weight, Forest-brown duck with soft flannel lining. Heavy grain leather reinforcements at lock and muzzle; molded cup leather end. Nickeled hardware. Note outside cleaning rod and accessories pocket. For 26, 28, 30 or 32 in. barrels. State length desired and model of gun.

DD-1000 For take-down shotguns and rifles..**$3.69**

Red Head Recoil Pads. Excellent quality red rubber, flexible cushion on a hard black rubber base.

DD-1344 State Size of Gun Butt Postpaid **$1.25**

[E] **Gunslick Cleaning Kit.** Contains: Duraluminum cleaning rod, 3 sections in case, 1 slotted, 1 jagged tip; brushes; solvent; gungrease; gun oil; cleaning patches; lubricant and booklet on "Tips to Shooters."

DD-1587 Shot Gun Kit—Sizes 12, 16, 20-28, 410 .....**$2.19**

DD-1588 Rifle Kit—Sizes .22 and .30 calibre **$2.10**

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Be sure to sign and include statement above with any gun or ammunition order.

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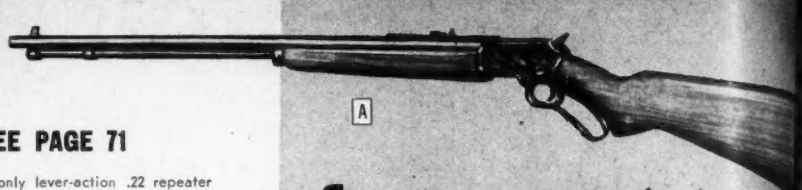
10-DAY FREE EXAMINATION! SEE PAGE 71



[A] **Marlin Lever-Action Model 39-A .22 Repeater.** The only lever-action .22 repeater made, the only take-down rifle exposing all working parts for oiling and cleaning by the turning of a single screw. 24-inch semi-heavy round-tapered barrel. Crown muzzle. Full magazine holds 25 short, 20 long or 18 long rifle .22 cartridges. Shoots regular and high-speed loads without adjustment. Full pistol grip butt-stock—overall length 41 inches.

DD-2049 Weight about 6½ lbs. Postpaid.....**$50.45**

[B] **K-22 Smith & Wesson "Masterpiece."** All new models of the Masterpiece line are now made with a new ribbed barrel. "High Speed" hammer with wide, deep-checked spur, anti-backlash trigger, faster and easier short cocking action and micrometer click target sights. Checkered Walnut stocks, 6" barrel. 6-shot.

DD-2300 K-22 Masterpiece .22 cal. Wt. 38 oz. Postpaid.....**$65.00**
DD-2302 K-38 Masterpiece .38 S. & W. Special Cal. Postpaid.....**$65.00**

[C] **Smith & Wesson Military and Police Revolver.** 6-shot; chambered for .38 S. & W. Special (also .38 Colt. Special .38 Short or Long Colt). Available in 2, 4, 5 and 6 inch barrels. Fixed front and square notch rear sights. Checkered walnut square butt stocks. Blued finish.

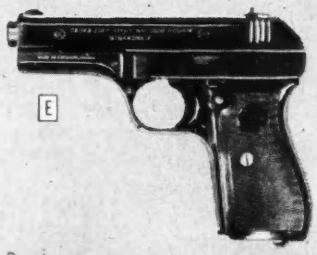
DD-2303 Postpaid (State choice).....**$56.50**

[D] **Colt .45 Cal. Automatic Pistol.** The Colt Government Model—for many years official sidearm of the United States Army, Navy and Marine Corps—is the most famous automatic pistol in the world. In its dependable action, under severe military conditions, its accurate performance on the target range, the Colt .45 has an enviable record of achievement.

DD-2285 Postpaid **$65.00**

Colt .38 Super Automatic Pistol. Built on the same frame as the .45 Automatic, as mentioned above. Shoots .38 Super Automatic Cartridges.

DD-2283 Postpaid **$65.00**



[E] **Czechoslovakian Model CZ .25 Cal. Automatic Pistol.** This pistol is made of the finest steel on ultra-modern machines by one of the oldest and best known small arms manufacturers in the world. Every CZ pistol is submitted to official approval and shooting tests. The long life of each part is fully guaranteed. This 9 shot Automatic shoots .25 Caliber Automatic cartridges. Length of barrel 2½ in., 5 in. overall, weight 15 oz. Blue steel finish with plastic grips. (We have a few perfect used guns of this make at only $32.95)

DD-2380 Postpaid **$37.75**

Hi Standard 380 Automatic Pistol, 5", Blued, Visible Hammer. New.

DD-2321 Postpaid **$55.00**

[F] **Crosman "Bull's Eye" Target Air Pistol.** Single Shot Air Pistol that gives "power without powder." Truly an expert's gun. Deadly accurate at ranges up to 30 feet. It is moderately priced and uses inexpensive lead pellets .177 cal. or 22 cal.

DD-2276 Postpaid **$14.95**

[G] **Boone Target Air Pistol.** This "POWERFUL POWDERLESS" pistol has been designed and balanced for target shooting. It presents the greatest value ever achieved in the target pistol field. Shoots regular BB's or pellets of same size. Fully guaranteed against any defects. Front bead-type sight serrated pistol-type grip, 4½ in. barrel, 9¾ in. overall.

DD-2265 Postpaid **$4.25**

[H] **Crosman Silent Air Rifle.** Adjustable power for indoor or outdoor shooting. Rustless super bronze, rifled barrel. Shoots .22 or .177 cal. Super Pells. (State choice.) Target type, oil-finished walnut stock with semi pistol grip; "clickless" silent type forearm. Sliding bolt action. Blade front sight, rear peep sight, adjustable for windage and elevation. Single shot.

DD-2254 Postpaid **$19.80**

Crosman .22 Caliber Magazine Load Repeater Model. Same as 2254, in appearance, except for 20 shot magazine on repeater.

DD-2255 Postpaid **$22.60**
DD-2980 .22 Cal. Crosman Super Pells. 500 for..... **1.85**
DD-2981 .177 Cal. Crosman Super Pells. 500 for..... **1.50**
DD-2984 .177 Darts 12 for..... **.35**

[I] **Johnson Indoor Target Gun.** A complete Home "Shooting Gallery" in one package. Most accurate gun of its kind ever designed . . . and the safest. Not an air rifle . . . not a firearm . . . but a new invention by a famous arms authority. Virtually as accurate as a fine rifle at ranges up to 30 feet . . . yet so harmless (due to low velocity pellet) that pellet will not break skin if hand is held in front of nozzle. Set includes gun targets, "shot-saver" backstop, 65 rounds of Johnson Micro Match precision pellets, and an extra propulsion unit.

DD-2256 Postpaid, Complete .....SPECIAL SALE PRICE.....**$9.95**

SPORTSMAN **$3.95**

DAISY **$2.95**

SPORTSMAN JR. AIR PISTOL

Designed to provide innumerable hours of fun and recreation. It shoots corks, BB's, lead pellets or steel darts. By using the interchangeable barrels you can shoot all the different types of ammunition. A top quality air pistol at a modest price.

D2267—Postpaid **$3.95**

DAISY TARGETEER AIR PISTOL OUTFIT

The safe family gun. Big, well balanced blued pistol is harmless. Shoots accurately up to 12 feet. Complete set has Pistol, spinning "Birdies," Target cards, 1 tube of 118 cal. BB shot and backstop.

D2268—Postpaid **$2.95**
118 cal. BB shot for above pistol, per tube .15c

NEW PRODUCTS

Electric bedding, first described in the RIFLEMAN, September 1947, provides a convenient and precise means of tuning a rifle barrel for best accuracy. Devices for electric bedding are now available from Al Freeland, 737 14th Ave., Rock Island, Ill.

A pilot model of an electric bedding device used by Arthur Cook during the past year had four adjustment screws. The ones being sold by Freeland have three adjustment screws, two on top and one on the bottom. The simple electrical unit for establishing the zero setting consists of a modified vest-pocket flashlight with two attaching wires. Tests made with the three-point contact show that it is capable of giving results equal to the four-point system. Tests also prove that it is possible to loosen the screws and adjust the barrel to the best setting in a matter of seconds, regardless of stock warpage.

At present devices are being made for the Winchester Model 52 heavy-barrel or Bull Gun and the Remington Model 37, but they can also be fitted to center-fire varmint rifles having barrels approximately the same diameter as those on the 52 or 37.

☆ ☆ ☆

New inletted stocks, one for the Model 721 Remington rifle and one Mannlicher-type stock for the M1903 Springfield, have just been received from E. C. Bishop & Son, Inc., Warsaw, Mo. The 721 stock with the plastic tip looks like a particularly good piece of wood.

In view of the many requests for information concerning Mannlicher stocks which we have received, it is good to see Bishop enter the field.

☆ ☆ ☆

Mykrom telescope sight mount with automatic zero return, a mount for hunting scopes, is being manufactured by the Baker-Barkon Co., of 1335 S. W. Morrison St., Portland 5, Oregon, designers and manufacturers of industrial equipment for more than 30 years. Mr. E. Gary Spencer of Baker-Barkon writes, "Four years ago we came to the conclusion that we could not buy . . . a telescope mount that was simple, strong, easily replaceable, light in weight, and of low price, and we set about to design such a mount with the last requirement given secondary consideration. About nine months ago, after much trial and error and fifteen models, each a little better, we thought, than the last, we finally settled on one that we believe meets all the requirements as noted. The main difficulties included finding methods of precise mass manufacturing. A main feature of the Mykrom mount is what we call 'the interplane lock,' a new mechanical principle of exactly joining and rejoining separate elements without calculation or special tools. The upper part, semi-permanently secured to a suitable telescope, may be instantly and accurately attached to the lower part by a twist of the fingers. After many thousands of tests in laboratory and field, we have not been able to determine the slightest variation in replacement."

The weight of the Mykrom mount is less than 6 ounces; length is 3⅜ inches. Retail price of it is $14.85.

Results of tests with this new mount will be reported in a future issue.

HI-STANDARD

.22 Automatic Pistol

Long a favorite of high-scoring shooters. Extreme accuracy. Wonderful balance. Automatic Slide Lock—for years a Hi-Standard feature. Adjustable Rear Sight. Blued finish. 4½" or 6¾" barrel. Shoots .22 long rifle. Comfortable, natural grip of genuine black walnut. Also furnished with the famous Hi-Standard "Thumb Rest" Grip for target shooters. New Model G-380 for .380 automatic cartridge is now available. Increased production should now enable you to obtain prompt delivery on both models.

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HAVE YOUR GAME TUMBLING—
WHILE OTHERS ARE STILL FUMBLING
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FOR MODEL 12 WINCHESTER, FITS ALL GAUGES
Install it Yourself in One Minute
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Here's a SPECIAL GUN OIL, specifically prepared in the Winchester laboratories to our own formula for cleaning, lubricating and preserving fine guns. Also for fishing reels, lawn mowers, etc. Has more body than light general oils. Non-gumming. Stays "put" winter and summer. Winchester Repeating Arms Co., New Haven, Conn., Division of Olin Industries, Inc.

3 OZ. CAN WITH HANDY LEAD SPOUT

CLEANS
Cleans, polishes, preserves all metal surfaces, inside and out, and wooden parts.

LUBRICATES
Its coating of base mineral oil lubricates working parts of gun—keeps action smooth.

PREVENTS RUST
It prevents rust formation from moisture in air, or contact with damp gun case or clothing. Does not tarnish metal.

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SPORTSMEN Everywhere Winning Blessed Relief. Do metatarsal callouses, corns, weak arch foot pains handicap your sport and work activities? Try Dr. Barron's New Foot Cushions. LIKE WALKING ON A PILLOW! Soft, Spongy, Ventilated. Fit all shoes. Cushions your arches and feet from heels to toes. Dr. Barron says: "Wonderful for tired, aching feet!" Send only $1.98 for A PAIR, or C.O.D. plus postage. State shoe size and if man or woman. 30-DAY TRIAL GUARANTEE. Money Back if no blessed relief
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The MIDGET Revolver Holster

Made of fine walnut wood and laced on your belt. Ideal for 2 to 6 in. barrels For complete details, write for circular and order blank. Reasonably priced.
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JUST WHAT YOU'VE BEEN WAITING FOR

ONLY $3.50 Including Leather Carrying Case

This real tomahawk has a 7" steel head with approximately 2¼" chopping edge. Hickory handle, weight approximately 17 ounces including the two way leather carrying case. Every hunter, trapper, fisherman and outdoorsman will find many practical uses for this fine tool. An attractive den decorator which lends early Americania atmosphere. Order yours today. Dealers Wanted.
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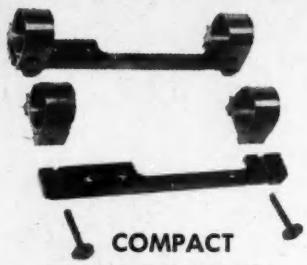

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By far most sturdy mount on market. Try one then compare with others. Will not shoot loose, very low, iron sights can be used with base attached. Very neat, smooth lines. Mounts are inter-changeable by installing bases on other rifles. For most rifles $15.00. Sp. Mt. Win. M-70—54 & Rem. M-721—22, inst. without drilling receiver $17.50.

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Whether a Superior Trigger, Positive Zero Mount, or Super Stock Finish & Filler

Have beautiful stocks with protection. Seals out moisture and oil, will not mar or scratch. Wonderful oil type finish, tougher than linseed, less than half the time. Smoother finish if filler is used. $1.00 each, enough for several stocks. Large quantities for gun shops.

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No other trigger to equal it. Light pull, eliminates creep, easy to install. Adjust to suit your fancy. Has everything. For Mauser, Springfield, Enf., Rem. M-30 and 720—$15.00.

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UNIVERSAL MOTOR
¼" Capacity in Steel
110 Volt A.C. or D.C.

Black & Decker product, the # HU-1 is only 7⅝" long, weighs 3¼ lbs., equipped with a 3 jaw Jacobs Hex-key chuck, instant release switch which can be locked "ON" if desired. This is a practical and useful hand drill for the pro and amz. gunsmith for drilling holes in steel, wood and plastic up to ¼" and for grinding, polishing, routing and sanding. **$18.95** F.O.B. N.Y.

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World's greatest manufactured oil for guns, reels, etc. Not a mineral oil. Used by U. S. Govt. for precision instruments. No gumming—no evaporation—no freezing—impervious to salt air or water. Lubricates and protects. The outstanding watch oil for generations—now available to sportsmen at a very reasonable price. A little Fulcrum Gun and Reel Oil lasts a long time. See your dealer—or order direct. Send only one dollar and we will ship 1 ounce bottle, postpaid. Order today.

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Made to U. S. Army Specifications!
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ELGIN
$19.95

Sturdy 16-Jewel **ELGIN men's** wrist watches. Water repellent. Sweep second hand. Stainless Steel back. Unbreakable crystal. QUALITY! American made. Fully reconditioned with ONE YEAR GUARANTEE! Made for the U. S. Army Air Corps. **They HAD to be good. SEND NO MONEY.** Simply pay postman $19.95 plus 10% tax and postage on delivery. Cash orders sent postpaid. Limited supply. **UNITED PRODUCTS CO.**, 7941 S. Halsted St., Dept. RES-1015 Chicago 20, Ill.

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BRAUBACH EQUIP. CO. 1620 W. Poplar San Antonio, Texas

Auxiliary chambers for making a .22 cali shotgun out of your 12, 16, or 20 gauge c be had in several makes. Reduction in c ber is a very practical idea. First, .22 ' rifle' shot cartridges are inexpensive co pared to shotgun shells. Second, they c be fired in places (including indoors) wh the 12, 16, or 20 gauge would be unsa And the chambers make it possible to sh at miniature clay pigeons with a regul game, trap, or skeet gun. The miniatu pigeons and traps are made by the Routle Manufacturing Co., 115 W. First St., Mon Michigan, and also by O. F. Mossberg Sons, Inc., 82508 St. John St., New Haven Conn.

P. S. Industries, Wellington, Ohio, man factures an auxiliary chamber, the Ta geteer, which takes the .22 long rifle ca tridge. The .22 cartridge is inserted in t auxiliary chamber, which is then insert into the chamber of the shotgun. The auxi iary chamber is extracted in the same fa ion as a regular shot-shell cartridge. Th Targeteer can be used in the single sho doubles, or pump guns. It isn't known w whether it will work in the automati Price is $3.95 a chamber.

The Barrelette Co., 428 Brookside Pla Cranford, N. J., also makes an auxili chamber for the same purpose but their d vice has an extension of sub-caliber barr extending into the shotgun barrel. Th device, although easily fitted and remov does not extract when the breech is open The device itself has an extractor, activa by the regular extractor, which throws t .22 shot cartridge out. The Barrelette wo excellently in single or double guns. It not well adapted to pump guns. Price $10.00 each.

☆ ☆ ☆

Cleaning kits for the .22 caliber rifle, caliber rifle, and up, as well as shotguns varying gauges, are being produced by Th Pak Gun Kit, Inc., San Francisco 3, Cal In the .22 caliber kit 522 is a three-sect duraluminum cleaning rod with a pat fitting tenite plastic handle which swivels ball bearings and a brush for removing lea ing and powder residue. Patches are i cluded in a special dispenser. Also in th kit is a 1½ ounce bottle of oil. The bot is made of tenite and the oil is reported have a lanolin and sperm base.

☆ ☆ ☆

Marlin lever actions, formerly known as th Marlin 36, have been redesigned with new type round breech bolt and other re finements. The new rifles are designated th Marlin 336's. The new design guns a more rugged and streamlined than were th old 36's.

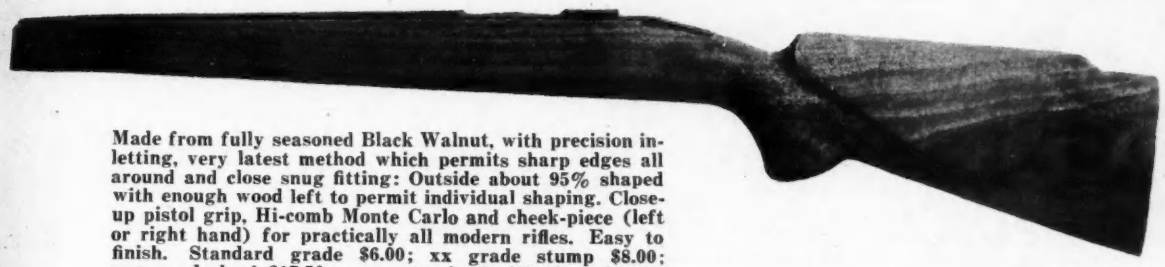
GUNSMITH TRADE DOPE

O. F. Coleman, P. O. Box 291, Post Fal Idaho, sent some very bright and clean 8 m handloads for trial. They shot well in standard 8 mm. military rifle, grouping co sistently in 3½ inches with most of them 2¼ inches for 10 shots using crude milita sights. The load is 47 grains of No. 4 powder and a 170-grain bullet. It is plea ant to shoot.

(Continued on page 76)

Flaig-ACE

"PENNSYLVANIA BLACK WALNUT INLETTED STOCKS"



Made from fully seasoned Black Walnut, with precision inletting, very latest method which permits sharp edges all around and close snug fitting: Outside about 95% shaped with enough wood left to permit individual shaping. Close-up pistol grip, Hi-comb Monte Carlo and cheek-piece (left or right hand) for practically all modern rifles. Easy to finish. Standard grade $6.00; xx grade stump $8.00; xxx grade burl $17.50; xxxx rare burls $25.00 to $35.00.

Special Price, Dealers—Gunsmiths.
Ask for Gun-Stock Folder

IMMEDIATE DELIVERY
ON MOST GRADES

SHOT-GUN BLANKS 2 x 7' x 18" grades from $1.00 standard to $12.00. Fore arm pieces 2¼ x 2½ x 12' $.50 to $2.00. Revolver Grips 3½ x 5 x 1" $.50 to $2.00 pair.

★

NEW F-N actions with 30-06, 257, 270 Chrome Moly 24" sporter barrel fitted, white not blued	$73.00
F-N actions with 220 Swift barrel sporter or med. heavy, box shortened, white 25 in.	78.00
All parts for F-N actions in stock.	
Rem 37 AR 22 cal new	113.60
720 Sav autos 12 ga, new	92.75
37 Ithaca's 16-12 ga, new	83.50
HD Hi-Standard 4½-6.3-4"	51.00
31 Rem 12, 16 ga., new	83.50
Rem. IIA 12 ga	99.00
Model 21 WIN Skeet 12-28" B-T S-T Select Ejec. new, ea.	252.50
M 21 Win 12-28 M-F Excellent newly reblued B-T burl stocks, recoil pad d.t., ea.	150.00
M-12 20 ga. Cutts Skeet-Gun	132.00
—M37S Ithaca 20 ga.	160.00
Colts 22-38-45 Units	40.00
Model 63 Win. auto 22 cal., New	59.75
Win 62 22-cal Short new	39.75
87 Stevens auto 22 cal	27.95
I-J Shot-Guns S-S .410, 12, 16, & 20 ga., new, ea.	22.50
75 Win Target 22 cal, new	54.50
45 Colt auto Com. 38 Colt Super	65.00
38 S&W M&P 2.4.5.6"	56.50
22 cal HD Hi-Standard 4½, 6¾"	51.00
Colt .38 O.M. Target	75.00

UNERTL & FECKER SCOPES

All sizes and magnification, LIST PRICE in stock prompt delivery:	
Leupold rifle scopes, 2¼X	57.50
Lyman Alaskan coated	60.00
G-88 Rifle scopes, 2½X	30.00
Stith Bear Cub Scope	55.00
Texan scopes coated, 2½ Ex.	50.00
Weaver K4 $45.00; K2.5	37.50
Weaver G4 $9.75; J2.5	22.50
Weaver K-6 $48.50; G-6	12.50
Dockendorff Gold Cross-Wire	5.75
Buehler Safeties $6.00; Mounts	15.00
Redfield 70 sights most numbers	9.50
Redfield 102 sights most numbers	6.75
Redfield hooded ramp sights	9.50
Redfield mts. 12.50 to	16.50
Redfield Olympic rear sights R-37	17.50
King Pike Mounts	17.50
Echo mts. $17.50; Pachmayr mts.	20.00
Lyman ramp sights, all sizes	6.25
Flaig ACE Ramp sights, complete	7.00
Lyman 48 sights, most numbers available $12.50-	14.00
Lyman 17A $3; Lyman 56 sights	8.00

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Tru-Line Jr. Loading tools	22.00
Ideal Powder Measure No. 55	10.00
Sheep Skin holsters 4-5-6" flap	1.50
Flaig-Ace Holster, half moon type, zipper closing. Inside finest sheepskin, outside soft live leather, prepaid	4.50
Sheep Skin Cases Hi-Grade	11.00
Sheep Skin Cases scope size	12.00
Polychokes fitted	14.75
Super Poly (Send barrel only)	18.75
Shot-Gun Cases Solid Cowhide, finest grade made 26-32"	18.00
L&C Lifetime Holster, Cow-hide 6", each	3.25
Spr. front sights complete	1.00
Spr. trigger guards milled new	3.00
Springfield barrels new 4 gr	12.00
Mauser F-N actions new bolt altered low scope	45.00
(Special price in lots)	
Mauser 98 firing pins new	3.00
Mauser 98 stripped bolts v.g.	5.00
Mauser 98 complete bolts v.g.	14.00
Mauser 98 issue stocks	3.00
Mauser 98 extractors new	3.00
Mauser 24" issue barrels v.g.	5.00
Enfield trigger guard stripped	1.50
Enfield extractors new	1.50
Colt 45 mags, new	1.50
Colt Slides new	7.50
Arched Housings, New	2.00
S&W barrels 17 M. new	6.00
S&W cylinders new	2.50
B&L Kalichrome Sh. Glasses	16.50
B&L Skeet Glasses	12.50
B&L Sun Glasses	10.75

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33 Win. ammo, box 200 gr.	3.25
Colt 45 ammo late per 100	4.00
30-06 M.C. ammo late date, 100	7.00
M.I. carbine ammo, 100	6.00
32 R.F. $2.00 100; 32 R.F Long 100	2.20
38-55 S.P. ammo Box, 100	2.65
32-40 S.P. ammo. Box, 100	2.30
25-20 S.P. $2.70 box; 38-40 S.P. $3.80 box	
12 ga. 00 Buck $1.00 box; Case	18.00
DuPont 3031, 4227, 4350, 4064, 4198, 4340, lb.	1.80
DuPont #6 4759, can	1.10
Speer bullets 22 cal, 45, 50, 55	2.80
Sierra bullets 22 cal, 45, 50 gr	2.80
Speer 25 cal 60-87 gr	3.60
Speer 30 cal 110 gr, 180 gr	4.00
Speer 7mm 145" $4.00; 8mm Speer Bullets 125-170 gr.	4.20
Rem 170 gr 30-30 SP	4.00
45-90 S.P. Bullets, 100 Rem.	5.00
Ammo. Available. Hunting Loads—8mm Mauser, 7mm Mauser, 30-30, 32 Spec., 303 Sav., 303 Brit., 45-70, 22 Sav. H.P., 250-3000, 25 Rem., 30-32-35 Rem., 220 Swift, 30 Luger, 9mm Luger, 25-32, 380 auto., 30-40 Krag, 348 Win., 351 auto., 38-40, 44-40, 219 Zipper, 218 Bee, 220 Swift, 257 Robt., 30.06 180 gr.	
Primers 1½ 6½ 9½ Rem Western 8½, M Peters 12-20, 120 Win.	6.50
30-40 Primed cases 300 Sav 32 Spec., per 100	7.00
Sun-Burst P.G. caps .60; doz.	4.80
Flaig Ace Trigger Shoe, Mauser 98, F.N. or Military	2.00
Springfield 1¼" Issue Swivels with base, new, dozen	2.00
Spr. Mauser. Enfield. Krag 45 C.A. 17 S&W parts. NEW LIST FREE.	

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Mount or remove your sling in less than 10 seconds. The McKinzie Q.D. sling swivel solves all the problems of swivels for good. Base sets flush with stock . . . no projecting knobs when you are not using the sling. Its positive locking ball bearings cannot give till the releasing button is pressed. For ⅞", 1" and 1¼" slings. Easy to install.

Complete set (postpaid) . . $3.50

Use one sling for all your guns by installing extra bases . . . set $1.25

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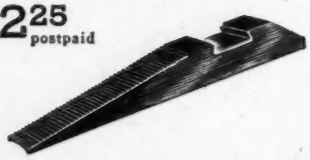
$2.25 postpaid



Std. ⅜" dovetail. Cross grooved to prevent glare. Blued or white. ½" high x 3½" long. Also ⅜" high x 2¾" long. .560 and .600 radii. (Enfield and Springfield take ½" high x .600 radii. Mauser, ⅜" high.) No. 6-48 screw included.

COMPLETE YOUR OWN RAMPS

Blanks in same sizes and radii as completed sights. Std. ⅜" dovetail. **$1.50**

If your Dealer cannot supply you, order direct. All mail orders promptly filled!

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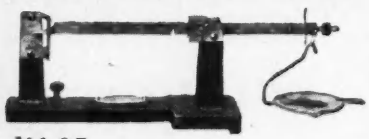
FAST-ACCURATE-DEPENDABLE



$11.95 Postpaid

Tenth grain accuracy with tenth grain over and under graduations—clearly graduated beam with self-aligning bearings—brown wrinkle finish base with leveling screw—325 grain capacity—no weights required. "You get it—just set it!" Folder on request.

Order thru your dealer or from—

THE REDDING CO.
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YOUR GUN OR RIFLE COVER FROM THE *Grimes* LINE

Here are two of the many beauties in the Grimes Line

All Grimes covers are handsomely made from finest materials by skilled craftsmen. Choice of covers made from all-leather, heavy duck, duck with leather trim and new plastic mildew-proof materials.

Price range from **$1.35** to **$40.00**

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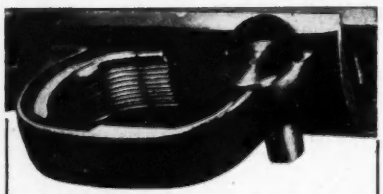
If he cannot supply you, send us his name and we will mail you our new Catalog A.

BRADLEY E. GRIMES Co.
WEST COLLINGSWOOD HEIGHTS, N. J.
Hunting, Camping, Fishing and Sport Accessories



SAFETY large button for Winchester model 12. Specify whether right or left hand **$2.50**

TRIGGER SHOES for most rifles and hand guns **$2.00**

Order direct or through your dealer

HARVEY E. HENSHAW, 818-820 Oakwood St., Pittsburgh 21, Pa.

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***USED GUNS, AUTO. PISTOLS**

P.38 Automatic	$35.00
32 Cal. Walther, pocket model	35.00
32 Cal. Mauser, pocket model	35.00
9MM Luger Automatic, 4"	35.00
32 Cal.—8 Shot Browning Automatic	30.00
763 Mauser Military Automatics	50.00
9MM Military Radom Automatic Pistol	25.00
8MM Japanese Automatic Pistols	20.00

* All in Good Condition

Send 25¢ for catalog of new and used guns, ammunition, binoculars and powder flasks.

Public Sport Shops
11 S. 16th St., Phila. 2, Pa. No COD'S

N. F. Strebe, a full-time gunsmith specializing in bluing and repairs of all kinds, including foreign arms, who was formerly located at 5310 Q St., S. E., has now moved to 6215 R St., S. E., Washington, D. C. We understand Strebe has a very large stock of hard to get parts for antique arms and foreign handguns, especially World War II souvenirs. The latest acquisition to the already enormous supply is 40,000 pounds of parts in one shipment. Mauser parts are in stock for immediate shipment. Strebe's modern bluing room and large workshop for military rifle conversions has been set up at the new location.

☆ ☆ ☆

'27' Second Cleaner Co., 6337 N. Talman Avenue, Chicago 5, Illinois, sells '27' Second Lens Cleaner, impregnated 2-inch diameter lint-free lens tissue discs in a handy plastic container. After wiping all exposed lens surfaces thoroughly, regular lens tissue is used for cleaning and polishing the surface. There was no apparent damage to coated lenses, even after vigorous rubbing with the '27' Second Cleaner. A full year's supply packed in modern plastic compact will be sent C.O.D. for only 59¢ plus charges, or for $1.00. Postage prepaid if remittance is sent with order.

☆ ☆ ☆

John Hearn, custom gunstocker, will be conducting his business in a temporary shop after September 1, 1948, pending a permanent location. Meanwhile all correspondence should be sent to his home address, 35 South 50th Street, Philadelphia 39, Pa.

BOOK REVIEWS

SHOOTING MUZZLE LOADING HANDGUNS
With Contemporary Notes on Duels and Duelling Practice

By CHARLES T. HAVEN

This cloth-bound book of 132 pages opens with 23 pages of data and information on how to shoot muzzle loading handguns and on the materials needed such as flint, powder, ball, and caps.

The remainder of the book consists of facsimile reprints of several old works on dueling. A chapter on duelling from *Personal Sketches of His Own Times* by Sir Jonah Barrington takes up 16 pages. The *Art of Duelling* by A Traveler, published in London in 1836, is reprinted in full, with the appendix, and occupies 82 pages. The remaining 9 pages are devoted to Chapter 6 from *The Romance of Duelling in All Times and Countries* by R. Andrews Steinmetz, covering the code of honor or regulations of the Duello.

The purchaser of this book should realize that it is primarily a book on duels and dueling practice of about a century ago, with just enough material on shooting muzzle loading handguns to enable the reader to understand the references in the reprints that make up the body of the book.

These reprints on duelling of a hundred years ago make very interesting reading especially to anyone who is historically inclined, since the appendix to the *Art of Duelling* gives a rather detailed history of several important duels of that day.—J. S. H.

(Published by Guns, Inc., Falmouth, Mass. Price $4.50. Available through NRA Book Service.)

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Rate: 25 cents per word including name and address—minimum charge $3.00. Advertisements *must be accompanied by remittance,* made payable to "National Rifle Association"—1600 Rhode Island Ave., Washington 6, D. C.

2. Closing Date: All advertisements must be received with advance payment by not later than the 1st of the month preceding date of issue. (Example: August 1st for the September issue. Ads received after August 1st and not later than September 1st will be inserted in the October issue.)

3. Who May Advertise: Any individual or firm whose advertisements and methods of doing business meet our requirements may advertise their goods or services in the ARMS CHEST.

4. All Orders Subject to These Conditions: We reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

5. Transactions Based on Good Faith: ARMS CHEST transactions are based on good faith and mutual satisfaction. Deliberate misrepresentation, disregard of usual business ethics, or the attempt to circumvent these general requirements, will result in refusal of further advertising and might result in disbarment from the NRA, in the case of members.

6. Blind Ads Not Acceptable: Blind ads, with box numbers *only,* will not be accepted. Give your COMPLETE name and address, to insure prompt delivery of all mail or telegraph replies.

7. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters are counted as one word (example: W. H. Smith; H. B., meaning heavy barrel). Hyphenated words are counted as two words (example: 20-gauge, pearl-handled, no-slip).

8. Responsibility for Illegible Copy: Type or print ads plainly, for we can not be responsible for errors due to illegible writing.

9. Firearms for Sale or Trade Must Be Properly Described: The *condition* of every gun (including essential parts) advertised for sale or trade, *must* be specified according to *NRA standards,* as follows: PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition; implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning no parts missing necessary to use of gun, reasonable wear inside and out, nothing worse than minor pits in steel or stock, gun sufficiently accurate for hunting. POOR—meaning marred appearance and pitted or badly worn bore.

When price lists or descriptive catalogs are offered the *condition* of every weapon so listed must be properly described in accordance with these requirements.

10. Privilege of Examination: Requesting shipment by express C. O. D., *with examination privileges* will permit the purchaser to inspect the merchandise *in local express office* and authorizes the express company to return unsatisfactory merchandise at shipper's expense.

11. "Outlawed" Firearms Cannot Be Sold: Federal statutes forbid the sale or trade of all machine or submachine guns; sawed-off rifles and shotguns with barrels of less than 18", and Mauser and Luger auto pistols *with holster stocks*—except by a Federally licensed dealer who has paid the special tax required by Section 3260, Internal Revenue Code.

In addition, the NRA has adopted a policy of not accepting advertisements covering small semi-automatic pocket pistols which have no practical value as target, police or military weapons.

12. Fair Trade Laws: All states with the exception of Missouri, Texas, Vermont and the District of Columbia have Fair Trade laws which permit manufacturers to contract with their distributors to maintain standard retail prices. Dealers who fail to do so are subject to legal action.

FOR SALE

WIN. 70 SUPERGRADE .220 PERFECT. Never fired. Fecker 1½" x 12 x Very Good—$260.00. H. L. Carmickle, 4132 Taylor Ave., Cincinnati, Ohio.

MODEL 70 WINCHESTER .300 SAVAGE caliber, Weaver K-4 scope, mount, all brand new. $180.00. Dan Pfoutz, 2926 Parkwood, Toledo, Ohio.

WIN. 52 SPORTER, VERY GOOD. REDfield Aperture front, Lyman 48 rear. $65.00. Richard O. Barton, 634 E. Gansevoort St., Little Falls, N. Y.

30/06 MODEL 70 WIN. BEAUTIFUL INlaid mesquite stock, one of J. D. Bates top jobs, Weaver K.4 scope and Redfield mount, sheep skin lined leather case. A beautiful show piece, just like new. $385.00. Allen Timney, 5832 Oliva Street, Bellflower, Cal.

BRAND NEW GUNS—IMMEDIATE SHIPment. Remington Model 721, 270 Cal., $79.95. Winchester Model 70, Cal. 257 Roberts, $106.00. Stevens Model 325, Carbine 30-30 Cal., $40.00. Winchester Model 21, Double Barrel, Single Selective trigger, Automatic Ejectors, 12 Gauge, $227.50. Winchester Model 12, Skeet Grade, 20 Gauge, with Cutts Compensator and extra Tube, $132.00. Winchester Model 12, Pump, 12, 16 or 20 Gauge, $83.50. Winchester Model 42, Pump, 410 Gauge, $69.50. Winchester Model 24, Double Barrel, 12 or 20 Gauge, $64.50. Remington Model 11A, or Sportsman 12, 16 or 20 Gauge, $99.00. Remington Model 31A, Pump, 12, 16 or 20 Gauge, $83.50; with Raised Rib, $98.50. Ithaca, Model 37, 12, 16 or 20 Gauge, $83.50; with Raised Rib, $98.50. Savage Model 219, 30-30 Cal., Single Shot, $28.80. Winchester Model 75, Sporter, 28 Cal., $47.05. Winchester Model 74, 22 Automatic, $31.50. Remington Model 550A, 22 Automatic, $32.85. Stevens Model 87, 22 Automatic, $27.95. Mossberg Model 151M, 22 Automatic $30.90. Hi-Standard HD Military, 4½ inch or 6¾ inch, 22 Target Pistol $51.17. Smith & Wesson K-38 or K22 Masterpiece, $65.00. Colt Super 38 or 45 Automatic, $65.00. Colt Conversion Units $40.00. Terms: Any of the above upon receipt of $10.00 money order; balance C.O.D. Subject to inspection. Miller's Sport Shop, Dept. R, 142 North 8th St., Philadelphia 7, Pa.

COLT OFFICERS MODEL TARGET H.B. 22, approx. 1 year old. Excellent. Grip adapter. $60.00. E. B. Smith, 60 Sunset Drive, Hempstead, N. Y.

3 TEXAN SCOPES—NEW—$35.00 EACH. 1 Hensholdt Dialytan Scope. Excellent. $75.00. 30-06 150 gr. Handloads $10.00 hundred. Ed. Higgins, Life Member, Box 4278, Tulsa, Oklahoma.

PARKER G. H. E. 12.2 PR. BBLS. 28" M & F 26" Both Imp. cy. Stock 1⅝ x 2½ x 14¼. Pad. Excellent. Fine leather case. $350.00 for outfit. F. G. Oakey, Salem, Va.

NEW AND USED SHOTGUNS—RIFLES—Handguns. Lists 10¢. Ken Nelson, 236 E. 14th, Fremont, Neb.

HUGE SURPLUS PURCHASE. NEW MEDical corps two burner alcohol stove, pocket size 1½" x 3½" x 9", cute rig for workbench, outdoorsman, traveler, $2.00 Postpaid (dealers wanted). J. C. Bogan Company, Dahlgren, Illinois.

ENFIELD SPEEDLOCK SPRINGS, 25 CENTS each; $2.50 per dozen, P. O. Ackley, Trinidad, Colorado.

30-06 CUSTOM MAUSER—LYMAN ALASkan on Redfield Junior mount. Full forend. Sling with O.D. swivels. Proof fired only. Perfect. $215.00. W. J. Douglas, 1319 W. Barnes Ave., Lansing 10, Michigan.

MANNLICHER SCHOENAUER 8.56, SET trigger, 20", very good. Five boxes factory ammunition. $140.00. Correspondence solicited. F. J. De Haven, Winter Haven, Florida.

MAUSER CAL. 270—CUSTOM-BUILT, NEW on VZ24 action, Johnson barrel 25", muzzle brake, K4 scope, coated lenses, Lee Dot, cheek piece, shotgun safety, recoil pad. Will sell to highest bidder. H. C. Meyers, 1411 Columbus, Grand Haven, Michigan.

SHIPS CHRONOMETER—BY THOMAS Mercer, Maker to the Admiralty, London and St. Albans. Glass topped wooden case, balancing rings, excellent, $90.00. Hugo Ristow, RFD #3, Walled Lake, Michigan.

22 CAL. 5 SHOT GERMAN MAUSER RIFLE with Lyman Alaskan scope and Griffin and Howe mounts. All excellent. $190.00. Karl S. Maxe, 31 Granville Avenue, Worcester 6, Mass.

PARKER—SINGLE TRAP, C.S., 32" BBL. vent. rib, engraved handsome stock in excellent condition. $200.00. Maj. J. A. L. Moller, 125 Barclay Street, New York 7, N. Y.

MILITARY AND SINGLE SHOT CONVERsions, new barrels, stocks, telescope mounts; free circular, P. O. Ackley, Trinidad, Colorado.

30-06 ENFIELD SPORTER, NEW STOCK, recoil pad, new bluing, open sights, bore very good. $65.00. M416 Stevens 22 Cal. target rifle, inside excellent, outside very good. $35.00. B & M M 28 reloading tool 22/250 Excellent. $16.00. Kenneth Sutton, 728 W. Oak Street, Union City, Indiana.

SAVAGE 300. VERY GOOD MFG. 1941 SOLID frame checkered grips and forearm Weaver 330 and caps. Stith mounts detachable sling. 70 factory loads, 80 reloads $.40. Hand made sole leather scabbard for same $20.00. Carl Dunn, 9101 South Damen, Chicago, Illinois.

PERFECT HI-STANDARD H.D. MILITARY .22 cal. Automatic Pistol. $46.00. First M.O. Robert Nieswanger, Denton, Montana.

E. G. SAVAGE 99. CALIBER .300. BRAND new $92.00. E. Stukas, Clinton, Iowa.

MODEL 70 BULL GUN, .300 WEATHERBY, 15 x Super target approx. 200 loads, dies. Excellent $315.00. Model 70 super, 30-06, Lyman Alaskan, 48 Rear. Excellent $210.00. Model 70, Super, .220 Swift, K4 scope (400 hand loads—super accurate, extra) Excellent $190.00. Lyman Alaskan never used. Excellent. $52.00. 38 Spec. 146 grs. wad cutters; .357 Sharpe 152 grs.; per 100 unsized 75¢. .44 Spec. Kieth 242 Grs. unsized per 100 95¢. IPCO Lubricant per box 80¢. Joseph J. Bugiada, 1339 E. 15th St., Brooklyn 30, N. Y.

LOW LINE SAFETY, FOR MAUSER, Springfield, and Model 54 Winchester; free circular, P. O. Ackley, Trinidad, Colorado.

CASH IN ADVANCE

for all classified ads!

Please note carefully Paragraph 1 of the 'General Requirements' which appear at the top of this page in every issue.

To prepare invoices, keep books, and run a "collection" department for the hundreds of ads which appear every month in the "Arms Chest," would increase overhead operating costs to the point where a higher rate per word would be required.

So to help in keeping the cost of these ads at an absolute minimum we urgently request that you send remittance in full payment, along with your Classified "copy" instructions.

Insertion can not be made until payment is received!

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Final closing date for the November issue is October 1st.

LITHOGRAPHED

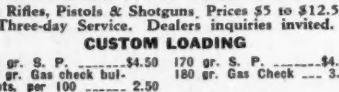
OFFICIAL N.R.A. Targets

RIFLE AND PISTOL

N. R. A. SEAL — SEND FOR — FREE Illustrated Price List

Official scores are judged to 1/100 of an inch of accuracy. That's why it's so important to use a target designed to give you perfect scores. That target is the N.R.A. TARGET . . . the choice of champions!

NATIONAL TARGET COMPANY, INC. 1255 25th St., N.W., WASH., D. C.



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RE-BLUING SERVICE

On Rifles, Pistols & Shotguns. Prices $5 to $12.50. Three-day Service. Dealers inquiries invited.

CUSTOM LOADING

180 gr. S. P. ------$4.50 170 gr. S. P. ------$4.00
190 gr. Gas check bullets, per 100 ------ 2.50 180 gr. Gas Check --- 3.50

We load all American and Foreign Calibers
Write for FREE circular on Military conversions

HANSON'S CUSTOM LOADING Bonner Springs Kansas

"RANDALL MADE" KNIVES

The Finest You Can Buy

HUNTING—FISHING—SKINNING—CARVING—FIGHTING—THROWING . . . 100% Handmade of Swedish tool steel, finest Heiser sheath and hone. 7-inch "Big Game" knife (illustrated), $22.50. "I guarantee you can't buy a finer knife."

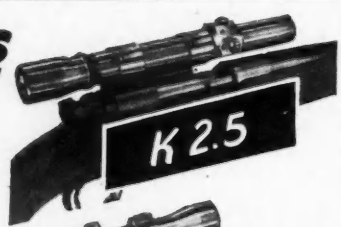
W. D. Randall, Jr., Box 1988-R, Orlando, Fla.

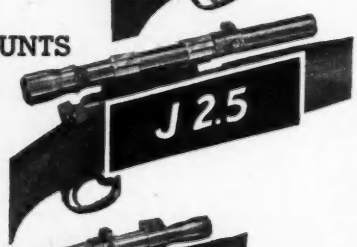
Send 3¢ for circular on other models . . . 10¢ for Knife Manual . . . 35¢ for Knife Fighting Booklet.

WEAVER SCOPES

One of these seven models will fit your needs

No need to look further than a WEAVER for your scope needs . . . the WEAVER line offers a scope for every purpose—big game, varmints, or just plinking. See the full line of WEAVER-SCOPES at your dealer today.





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Priced to fit your pocketbook

Weaver-Scopes for .22 Rifles

G4 . . $ 9.75
G6 . . $12.50

Weaver-Scopes for all Rifles

J2.5 . . $22.50
J4 . . $27.50
K2.5 . . $37.50
K4 . . $45.00
K6 . . $48.50

Please send folders on WEAVER-SCOPES and Mounts

Model K ☐ Model J ☐ Model G ☐
K Model Reticules ☐ Weaver-Choke ☐

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City _____ Zone ____ State _____

W. R. WEAVER COMPANY

DEPARTMENT I EL PASO, TEXAS

NEW WINCHESTERS M/94 30/30 60.95. Excellent M/70 .257 Lyman 48 $117.00. Excellent Savage M/99 .22 high power $80.00 Colt Commando perfect $41.00. Livingston Shooters Supply, East Corinth, Maine.

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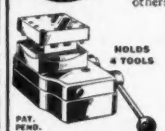

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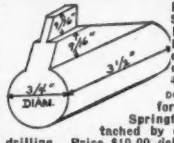

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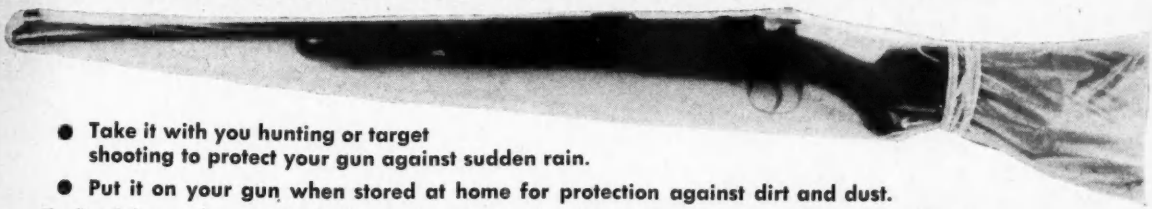

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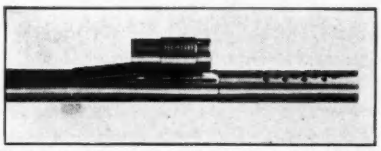

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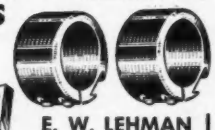

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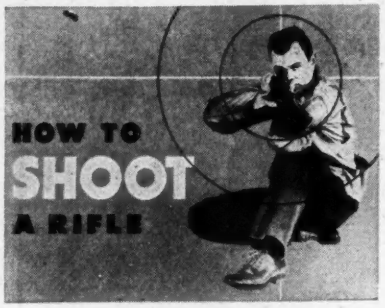

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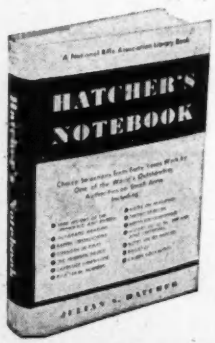

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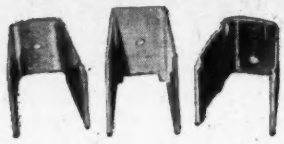

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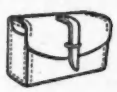

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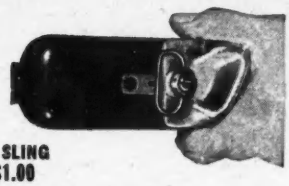

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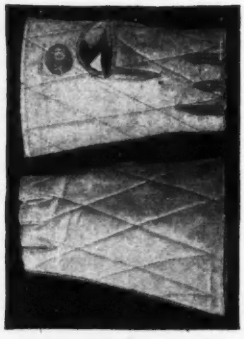

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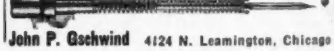

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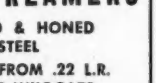

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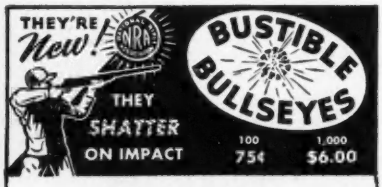

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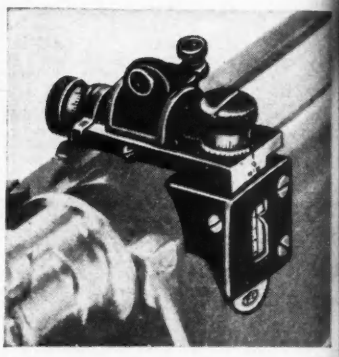

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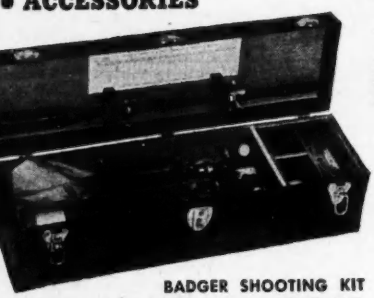

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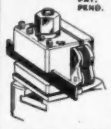

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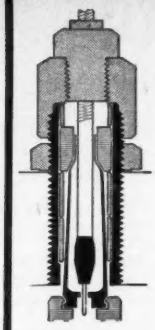

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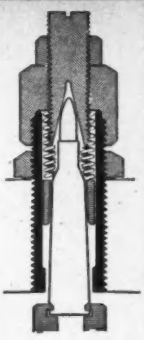

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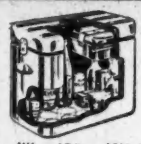

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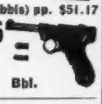

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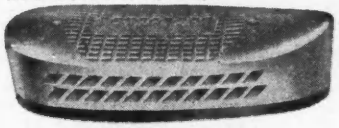

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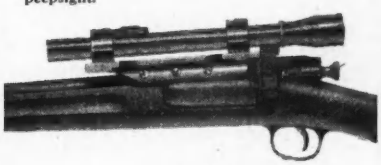

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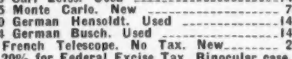

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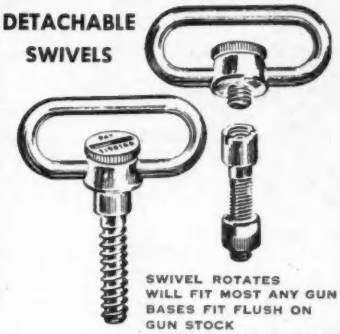

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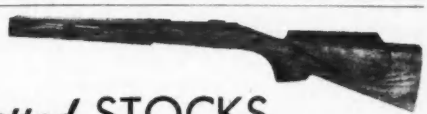

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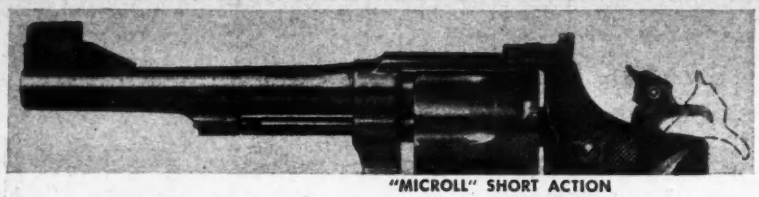

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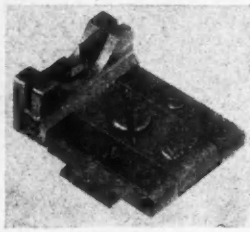

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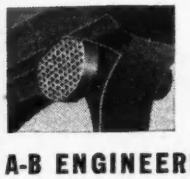

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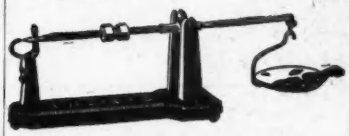

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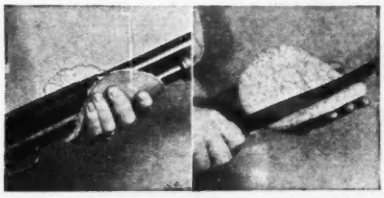

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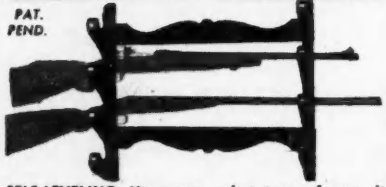

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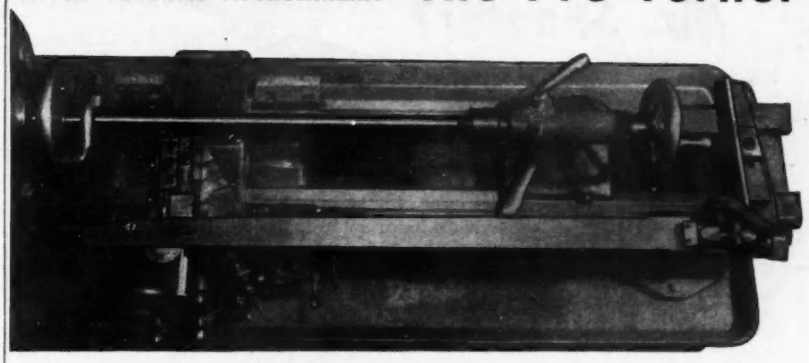

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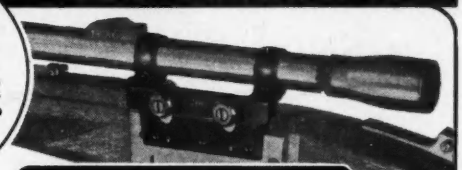

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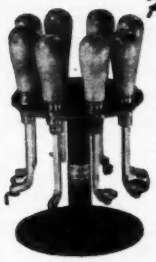

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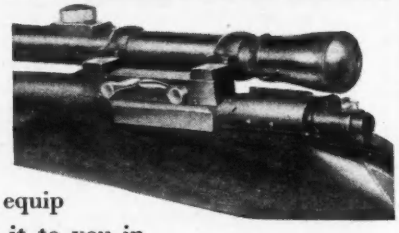

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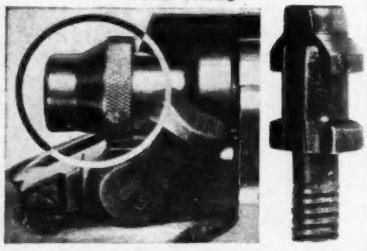

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As announced in THE RIFLEMAN last month, rising costs have finally forced the N.R.A. to increase annual membership dues and subscription rates effective October 1, 1948, as follows:

One Year $4.00; Two Years $7.00; Three Years $10.00. The single copy price will be increased to 35¢. The new rates apply to straight subscriptions as well as membership subscriptions and the usual additional charge of 60¢ a year for foreign postage remains unchanged.

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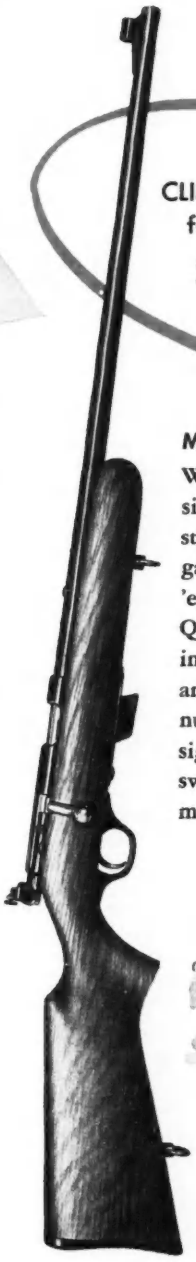

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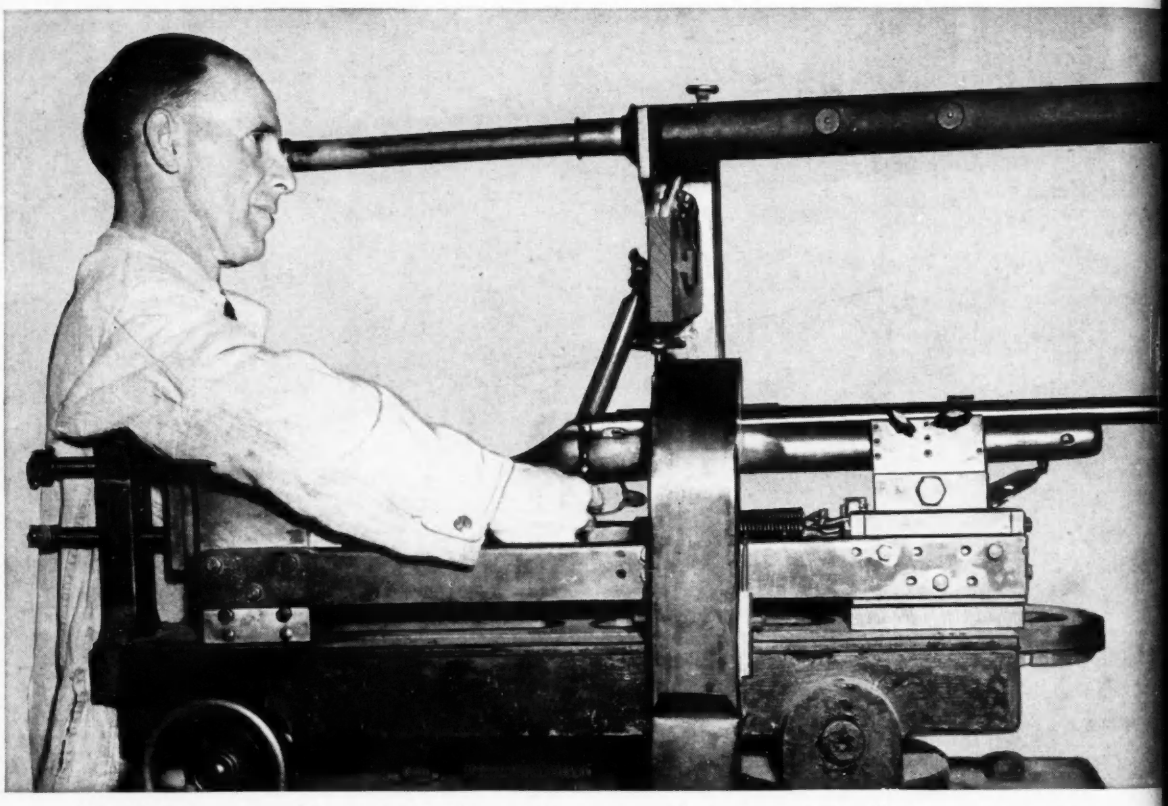

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